SERVICE MANUAL PARTS LISTE

AKAI STEREO TAPE DECK
MODEL GX-630D
ALSO APPLICABLE TO MODEL GX-630DB



AKAI STEREO TAPE DECK MODEL GX-630D

ALSO APPLI	CABLE TO MODEL GX-630DB STEREO TAPE DECK	
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SECTION 1

SERVICE MANUAL

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For basic adjustments, measuring methods, and operating principles, refer to GENERAL OPERATING PRINCIPLES AND ADJUSTMENTS.

I SPECIFICATIONS

An asterisk next to a figure indicates the minimum guaranteed performance.

TRACK SYSTEM	4 track 2 channel stereo/monaural system
TEPE SPEED	7-1/2 and 3-3/4 ips ±0.7%
	*7-1/2 and 3-3/4 ips +1.0/-1.5%
WOW AND FLUTTER	Less than 0.06% WRMS at 7-1/2 ips
	Less than 0.09% WRMS at 3-3/4 ips
	*Less than 0.10% RMS at 7-1/2 ips
	*Less than 0.15% RMS at 3-3/4 ips
TOTAL WOW AND FLUTTER	*Less than 0.12% RMS at 7-1/2 ips
	*Less than 0.18% RMS at 3-3/4 ips
FREQUENCY RESPONSE	30 to 25,000 Hz ±3 dB at 7-1/2 ips
	30 to 19,000 Hz ±3 dB at 3-3/4 ips
	(with AKAI LN-150-7 Tape)
	*30 to 22,000 Hz ±3 dB at 7-1/2 ips
	*30 to 18,000 Hz ±3 dB at 3-3/4 ips
HARMONIC DISTORTION	Less than 0.5%
TOTAL HARMONIC DISTORTION	*Less than 1.5%
SIGNAL TO NOISE RATIO	Better than 50 dB
TOTAL SIGNAL TO NOISE RATIO	*Better than 47 dB
OUTPUT LINE	*0.775V (0 dBm ±1.0 dB)
HEADPHONE	30 mV at 8 ohm
HEADITIONE	At playback of a 700 Hz "0" VU pre-recorded test tape.
	(Output Volume at maximum)
INPUT MIC	More than 0.25 mV/10 k ohm
LINE	More than 70 mV/150 k ohm
LINE	At "0" VU output. (Recording Volume at maximum)
DIN INDICT/OFFDUT	0.25 mV/0.5V
DIN INPUT/OUTPUT RECORDING/PLAYBACK LEVEL	*0.775V (0 dBm ±1.5 dB)
CROSS TALK	Better than 45 dB, stereo
CRUSS TALK	Better than 45 dB, stereo Better than 55 dB, monaural
ED ACE DATIO	Better than 70 dB
ERASE RATIO	
RECORDING BIAS FREQUENCY	100 kHz ±5% Better than -30 dB (GX-630D)
BIAS LEAK	
THE CANDING A PRIVATE ON	Better than -50 dB (GX-630DB) Within 3 dB
HIGH FREQUENCY DEVIATION	
	At playback of an 8,000 Hz 3-3/4 ips pre-recorded tape at 7-1/2 ips
RECORDING TIME	180 min stereo recording at 7-1/2 ips, using a 3,600 ft tape.
F.FWD AND RWD TIME	Approximately 2 min and 40 sec at 50 Hz, using a 3,600 ft tape.
MOTOR MAIN MOTOR	2 speed AC servo control outer rotor motor
	Type: SCM2-24KJ 4 pole
	Revolutions: 615 rpm at 7-1/2 ips (19 cm/sec)
	307.5 rpm at 3-3/4 ips (9.5 cm/sec)
REEL MOTOR	6 pole eddy current outer-rotor motor
	Type: 24XO-TD
	Revolutions: 930 rpm at 50 Hz
	1,120 rpm at 60 Hz
HEAD ERASE HEAD	Type: E4-260
	Gap: double gap
Y	Impedance: 210 ohm ±10% at 100 kHz
t e	D.C Resistance: 2 ohm
RECORDING HEAD	Type: R4-200
	Gap: 4 micron
	Impedance: 1,870 ohm at 100 kHz
	D.C Resistance: 8 ohm
PLAYBACK HEAD	Type: P4-202
	Gap: 1.7 ±0.5 micron
	Impedance: 1,400 ohm at 1 kHz
	D.C Resistance: 268 ohm
	W. C. V. C.

TRANSISTOR & FET	2SA564(Q)(R) 1(5)	2SC1247A(B)(V) 2(2)		
	2SC458(C) 0(12)	$2SD361(D_1)(D_2) \dots 1(1)$		
	2SC458LG(C) 16(32)	TIP47 1(1)		
	2SC711(F)(G) 2(2)	2SK30A(GR)0(4)		
197	2SC945L(Q)(P) 22(22)			
DIODE	1N34A 2(6)	10D24(4)		
	1N4001 4(4)	WZ0752(2)		
	1N4004 6(6)	WZ085 0(4)		
	1S15881(1)	WZ1921(1)		
	1S2473 21(21)	$RD5A(M) \dots 1(1)$		
	1S2473VE 16(28)			
POWER REQUIREMENT AND CONSUMPTION	100 to 240V AC 50/60 Hz, 90	OW (Universal Models)		
	220V AC 50 Hz, 100W (CEE Models)			
	120V AC 60 Hz, 90W (CSA Models)			
4	100V AC 50/60 Hz, 70W (JPN Models)			
DIMENSIONS	465(H) x 440(W) x 240(D) mm (18.3" x 17.4" x 9.4")			
	Dimensions include all protruding parts.			
WEIGHT	GX-630D: 19 kg (41.8 lbs)			
	GX-630DB: 19.5 kg (42.9 lbs)			

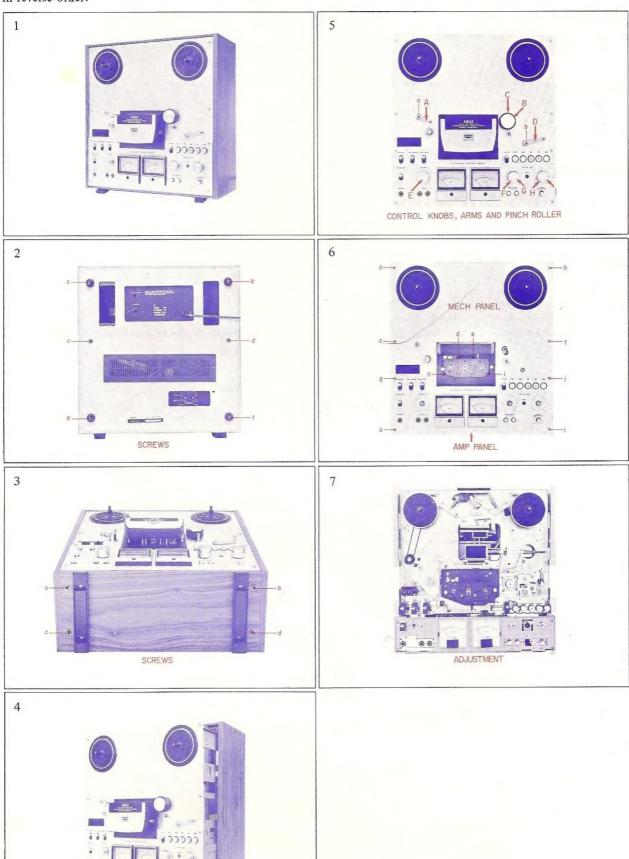
NOTES: 1. Specifications determined with SCOTCH #211 Tape unless otherwise noted.

2. Specifications subject to change without notice.

3. The numbers shown in parentheses in Items TRANSISTOR & FET and DIODE are applicable to Model GX-630DB.

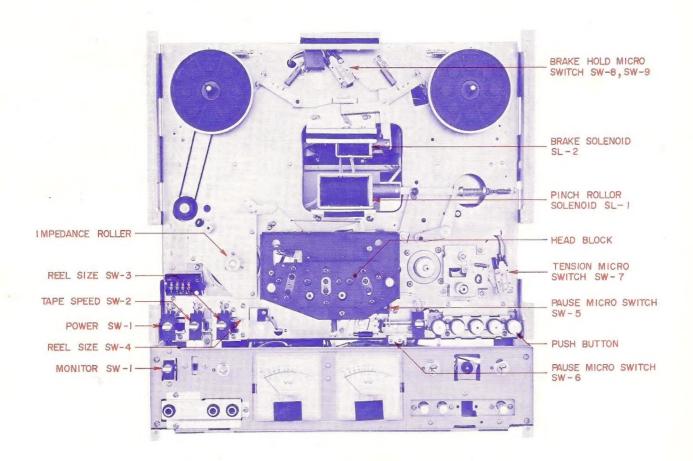
II DISMANTLING OF UNIT

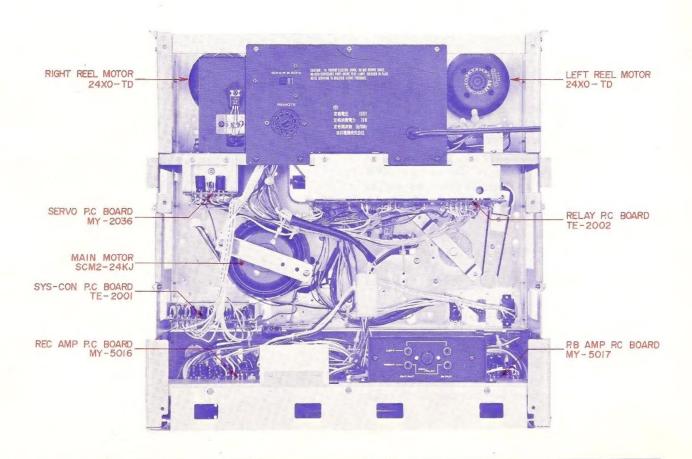
In case of trouble, etc. necessitating disassembly, please disassemble in the order shown in photographs. Reassemble in reverse order.



WOOD CASE

III ARRANGEMENT OF PRINCIPAL PARTS





IV MECHANISM ADJUSTMENT

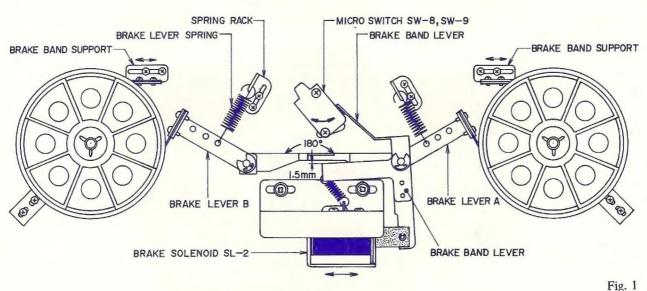
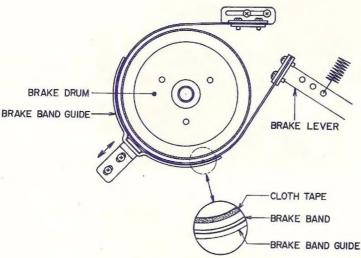


Fig. 2



1. POSITION ADJUSTMENT OF BRAKE SOLENOID SL-2 (Refer to Figs. 1, 2)

- Adjust left/right Brake Band Support positions so that at stop mode, Brake Lever A and Brake Lever B display 180° angle relativity.
- 2) Under the conditions described in 1) above, adjust installation angle position of Microswitches SW-8 and SW-9 so that the clearance between the brake lever and brake band lever is 1.5 mm.
- Adjust installation position of the Brake Solenoid so that at playback mode, the brake band separates from the brake drum.

2. BRAKE TENSION ADJUSTMENT (Refer to Figs. 1, 2)

- 1) Adjust installation position of the Spring Rack so that brake tension is 500g.
- 2) After brake tension adjustment, adjust installation position of the Brake Band Guide so that at all modes except stop mode, the brake band completely separates from the cloth tape on the brake drum.

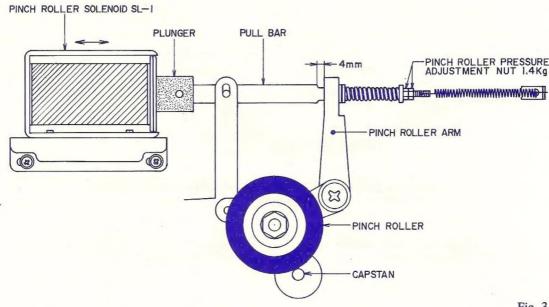


Fig. 3

3. POSITION **ADJUSTMENT** OF **PINCH** ROLLER SOLENOID SL-1 (Refer to Fig. 3)

- 1) Insert a 4 mm thickness gauge (A U type washer can be substituted) between the Pull Bar and Pinch Roller Arm.
- 2) Set the deck to playback mode, and fix Pinch Roller Solenoid at position at which pinch roller begins to rotate.

4. PINCH ROLLER PRESSURE ADJUST-MENT (Refer to Fig. 3)

Adjust Pinch Roller Pressure Adjustment Nut so that pinch roller pressure is 1.4 kg.

NOTE: To measure pinch roller pressure, pull the pinch roller away from capstan with a spring gauge and gently return. Spring Gauge indication, at the time the pinch roller contacts the capstan and the capstan begins to rotate, should be 1.4 kg.

5. CAPSTAN SHAFT LOOSE PLAY ADJUST-MENT (Refer to Fig. 4)

Adjust to obtain a clearance of 0.1 mm between the Capstan Shaft and Thrust Support Angle.

6. IMPEDANCE ROLLER LOOSE PLAY AD-JUSTMENT (Refer to Fig. 5)

Adjust Screws A and B so that impedance roller loose play is 0.1 mm.

NOTE: Confirm that the screws are tight following this adjustment.

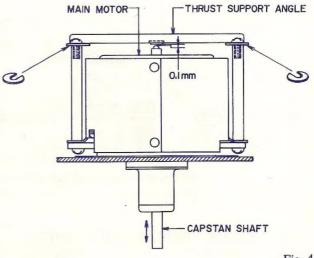


Fig. 4

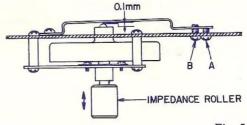
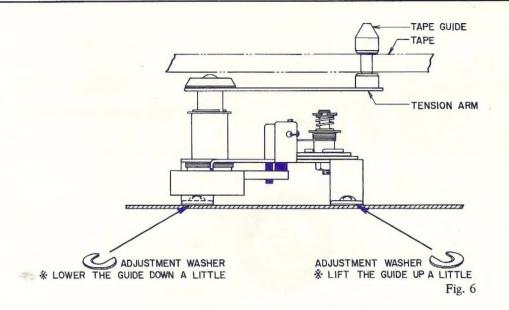


Fig. 5



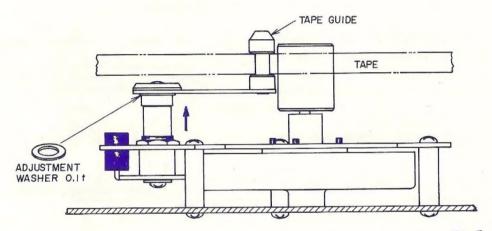
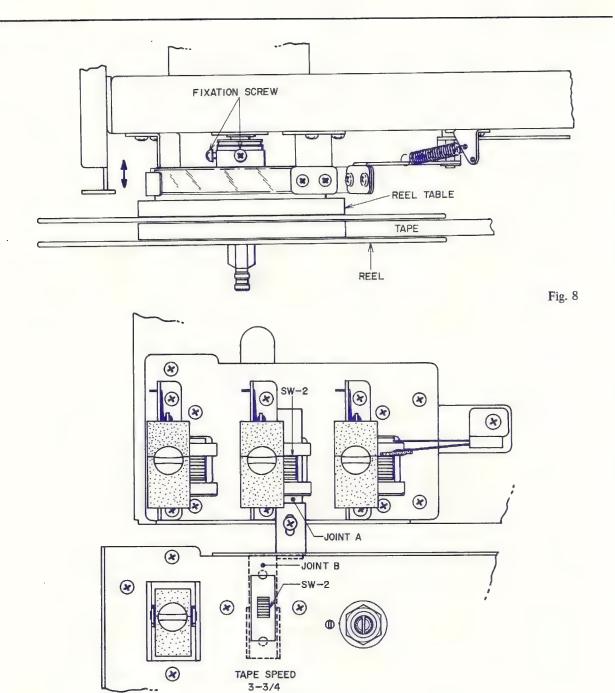


Fig. 7

7. TAPE GUIDE HEIGHT ADJUSTMENT (Refer to Figs. 6, 7)

Adjust tape guide height so that the tape does not curl between the tape guide and guides on head base.

NOTE: As left and right tape guide height adjustment methods are different, be sure to refer to Figs. 6, and 7.



7-1/2

Fig. 9

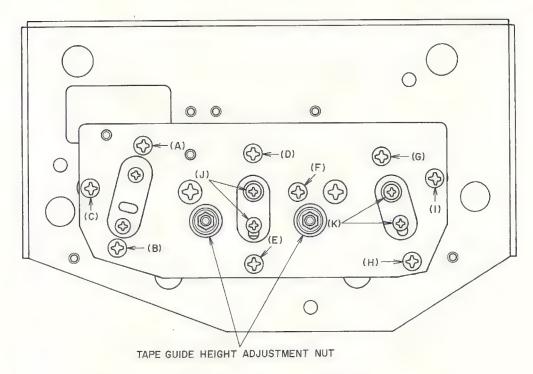
8. REEL TABLE HEIGHT ADJUSTMENT (Refer to Fig. 8)

Load a tape and adjust reel table height so that at both F.FWD and RWD modes, the tape winds on the center of the reel hub.

NOTE: Tape should wind on center of reel hub regardless of type reel used.

9. INSTALLATION POSITION ADJUSTMENT OF JOINT B (Refer to Fig. 9)

Adjust installation position of Joint B so that when tape speed is changed, Slide Switch SW-2 and Equalizer Change Slide Switch SW-2 mounted on the amplifier front chassis display link-motion for proper switching.



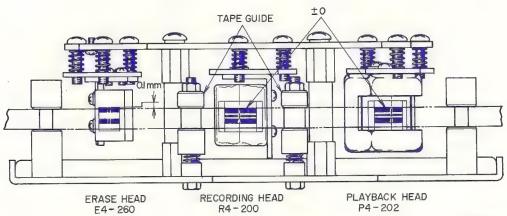


Fig. 10

- NOTES: 1. As perfect head adjustments are vital to tape deck performance, be sure that these adjustments are carried out properly.
 - 2. Be careful not to use a magnetized driver or other magnetized tools in the vicinity of the heads.
 - 3. Use only new tape as level variation is likely to occur when using old tape.
 - 4. Demagnetize heads with head demagnetizer before and after head adjustment.
 - 5. Set tape speed to 7-1/2 ips except in steps 7 and 8.
 - 6. Refer to Fig. 10.

Step	Adjustment Item	Test Tape Supply Signal	MODE	Adjustment Point	Remarks
1	Tape Guide height Adjustment	Optional	PLAY	Tape Guide Height Adjustment Nut	Adjust so that tape does not twist between tape guides on head base.
2	Erase Head Height Adjustment	Optional	PLAY	(A)(B)(C)	Upper edge of channel 1 head core is 0.1 mm higher than upper edge of tape.
3 .	Recording Head Height Adjustment	Optional	PLAY	(D)(E)(F)	Upper edges of channel 1 head core and tape are the same height.
4	Playback Head Height Adjustment	Optional	PLAY	(G)(H)(I)	Upper edges of channel 1 head core and tape are the same height.
5	Playback Head Azimuth Alignment Adjustment	8,000 Hz 3-3/4 ips Test Tape	PLAY	(1)	Maximum output, both channels.
6	Playback Head Gap Alignment Adjustment	8,000 Hz 3-3/4 ips Test Tape	PLAY	(K)	Adjust head gap surface so that there is no change in output level when tension is applied to the supply reel side.
7	Recording Head Azimuth Alignment Adjustment	SCOTCH #211 Tape 15,000 Hz -20 dBm	REC	(F)	Maximum output, both channels.
8	Recording Head Gap Alignment Adjustment	SCOTCH #211 Tape 15,000 Hz -20 dBm	REC	(1)	Adjust head gap surface so that there is no change in output level when tension is applied to the supply reel side.

Chart 1

VI AMPLIFIER SYSTEM ADJUSTMENT

1. D.C POWER SUPPLY VOLTAGE ADJUSTMENT (Refer to Fig. 11)

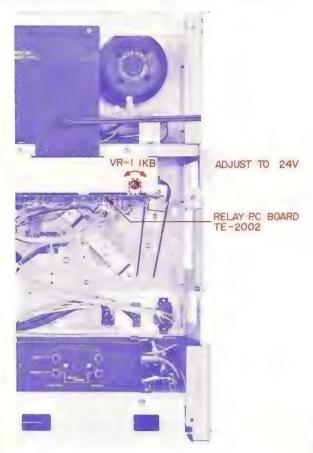


Fig. 11

2. TAPE SPEED ADJUSTMENT (Refer to Fig. 12)

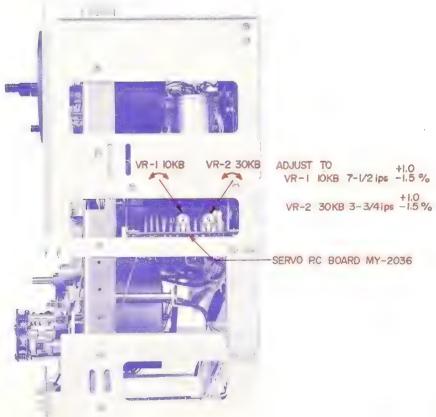


Fig. 12

3. RECORDING AND PLAYBACK AMPLIFIER ADJUSTMENT (Model GX-630D) (Refer to Fig. 13)

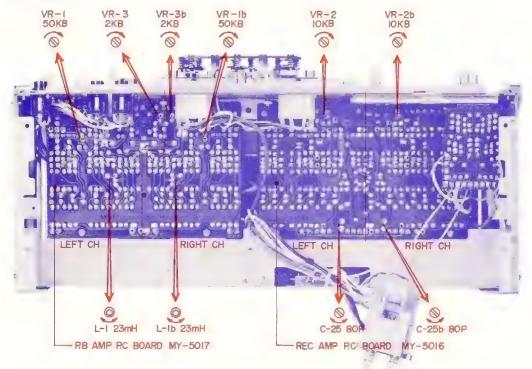


Fig. 13

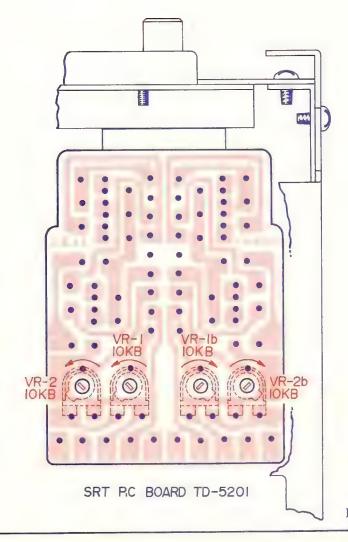


Fig. 14

Step	Adjustment Item	Test Tape Supply Signal	Mode	Adjustment Point	Result	Remarks
1	Playback Level Adjustment	700 Hz 7-1/2 ips 0 VU Test Tape	PLAY	VR-1 50 kB	0 ±1.5 dB (0.775V)	
2	VU Meter Sensitivity Adjustment	700 Hz 7-1/2 ips 0 VU Test Tape	PLAY	VR-3 2 kB	0 VU	
3	Recording Level Adjustment	SCOTCH #211 Tape 1,000 Hz 0 VU recording	REC	VR-2 10 kB	0 ±1.5 dB (0.775V)	
4	Frequency Response Adjustment	SCOTCH #211 Tape 1,000 Hz 10,000 Hz -20 VU recording	REC	C-25 80P	1,000 Hz to 10,000 Hz flat	Tape Speed 3-3/4 ips. Recheck recording level.
5	Bias Leak		REC	L-1 23 mH	Less than -30 VU	Less than -20 VU at monaural.

Chart 2

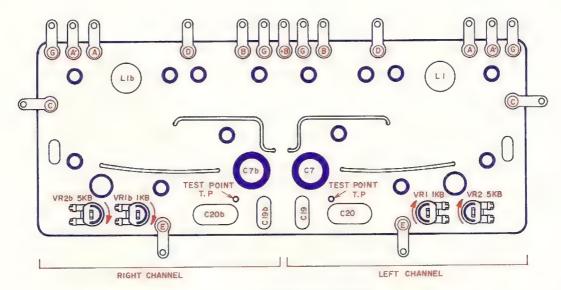
4. RECORDING AND PLAYBACK AMPLIFIER ADJUSTMENT (Model GX-630DB) (Refer to Figs. 13, 14)

Step	Adjustment Item	Test Tape Supply Signal	Mode	Adjustment Point	Result	Remarks
1	Playback Level Adjustment	700 Hz 7-1/2 ips 0 VU Test Tape	PLAY	VR-1 50 kB	0 ±1.0 dB (0.775V)	
2	VU Meter Sensitivity Adjustment	700 Hz 7-1/2 ips 0 VU Test Tape	PLAY	VR-3 2 kB	0 VU	
3	Recording Level Adjustment (Low Noise Tape)	SCOTCH #211 Tape 1,000 Hz 0 VU recording	REC	VR-1 10 kB	0 ±1.5 dB (0.775V)	
4	Recording Level Adjustment (Wide Range Tape)	AKAI LN-150-7 Tape 1,000 Hz 0 VU recording	REC	VR-2 10 kB	0 ±1.5 dB (0.775V)	
5	Frequency Response Adjustment	SCOTCH #211 Tape 1,000 Hz 10,000 Hz -20 VU recording	REC	C-25 80P	1,000 Hz to 10,000 Hz flat	Tape Speed 3-3/4 ips. Recheck recording level.
6	Bias Leak		REC	L-1 23 mH	Less than -50 VU	
7	Dolby Noise Reduction Adjustment					Refer to Item V-5 below.

Chart 3

NOTES: 1) Set tape speed to 3-3/4 ips for frequency response adjustment and to 7-1/2 ips for all other adjustments.

- 2) Set Tape Selector to "LOW NOISE" except where otherwise noted.
- 3) Set Monitor Switch to "TAPE" except where otherwise noted.
- 4) Output Volume at maximum.
- 5) New test tape should be used.
- 6) The letter b following an adjustment part number indicated "Right Channel".



DOLBY NR P.C BOARD TD-5301

Fig. 15

5. DOLBY NOISE REDUCTION ADJUST-MENT (Model GX-630DB) (Refer to Fig. 15) NOTE: Identical P.C Boards are utilized for Recording Dolby N.R and Playback Dolby N.R The Recording Dolby N.R P.C Board is located on the Recording Amp P.C Board and the Playback Dolby N.R P.C Board is located on the Playback Amp P.C Board, Adjust left and right channels respectively.

PART-1. RECORDING DOLBY N.R CIRCUIT ADJUSTMENT

Disconnect the wire connected to Dolby circuit input and output terminals (A) and (B). Connect an Audio frequency oscillator to terminal (A) and connect a High-sensitivity VTVM to terminal (B).

- 1) Turn semi-fixed resistors VR1 1kB and VR2 5 kB fully clockwise (Fig. 15).
- 2) Ground test points T.P (Fig. 15)
- 3) Set Dolby Switch to OFF position.
- 4) Supply a 5 kHz, -10 dBm signal which has been verified with a frequency counter from the audio frequency oscillator and confirm that at this time the indication of the high-sensitivity VTVM connected to terminal (B) is 0 dBm.
- 5) Reduce the output of the audio frequency oscillator by -30.5 dB from the condition outlined in item 1-4) (5 kHz, -40.5 dB) and at this time confirm that the indication of the high-sensitivity VTVM connected to terminal (B) is -30.5 dB.
- 6) Set Dolby Switch to ON position and adjust semi-fixed resistor VR1 1 kB to obtain a -20.5 dBm indication on the high-sensitivity VTVM connected terminal (B).
- 7) Disconnect ground wire from test point T.P (grounded in item 1-2) and at this time adjust semi-fixed resistor VR2 5 kB to obtain a -22.5 dBm indication on the high-sensitivity VTVM connected to terminal (B).

PART-2. PLAYBACK DOLBY N.R CIRCUIT ADJUSTMENT

This adjustment is carried out in essentially the same way as the recording Dolby circuit adjustment.

Disconnect the wire connected to input and output terminals(A') and (B), connect and audio frequency oscillator to terminal(A'), and connect a high-sensitivity VTVM to terminal(B). Turn semi-fixed resistor VR1 1 kB and VR2 5 kB fully clockwise, and ground test points T.P.

- Set Dolby Switch to OFF position and supply a 5 kHz, 10 dBm signal which has been verified with a frequency counter from the audio frequency oscillator, Confirm that the high-sensitivity VTVM indication at this time is 0 dBm. Next, lower the oscillator output by -22.5 dB and confirm that the high-sensitivity VTVM indication is -22.5 dB.
- Set Dolby Switch to ON position and at this time adjust semi-fixed resistor VR1 1 kB to obtain a -32.5 dB high-sensitivity VTVM indication.

Next, disconnect ground wire from test points T.P and adjust semi-fixed resistor VR-2 5 kB to obtain a -30.5 dBm indication.

VII D.C RESISTANCE OF VARIOUS COILS

Part	Designation	D.C Resistance
Main Motor	SCM2-24KJ	Between BLU-RED: 100 ohm Between YLW-GRN: 180 ohm Pick-up Coil: 635 ohm
Reel Motor	24XO-TD	Between RED-BLU: 72 ohm Between YLW-GRN: 160 ohm
Pinch Roller Solenoid	1660 THT3	700 ohm
Brake Solenoid	1240 PHT3	900 ohm
Relay	MY4-02-US-24DC	700 ohm
Relay	LC1-C-J1DC-24V	1,150 ohm
Relay	TECK-36	1,000 ohm
Headphone Output Transformer	N16-535S	Primary: 565 ohm ± 15% Secondary: 0.95 ohm ± 15%
Oscillator Coil	OT-204	Between 1 - 3 : 0.3 ohm Between 4 - 6 : 0.7 ohm Between 7 - 9 : 8.2 ohm
Erase Head	E4-260	2.0 ohm
Recording Head	R4-200	8.0 ohm
Playback Head	P4-202	268 ohm

Chart 4

NOTE: The resistance values shown in this chart are average values.

VIII CLASSIFICATIONS OF VARIOUS P.C BOARDS

1. P.C BOARD INTERCHANGEABILITY CHART

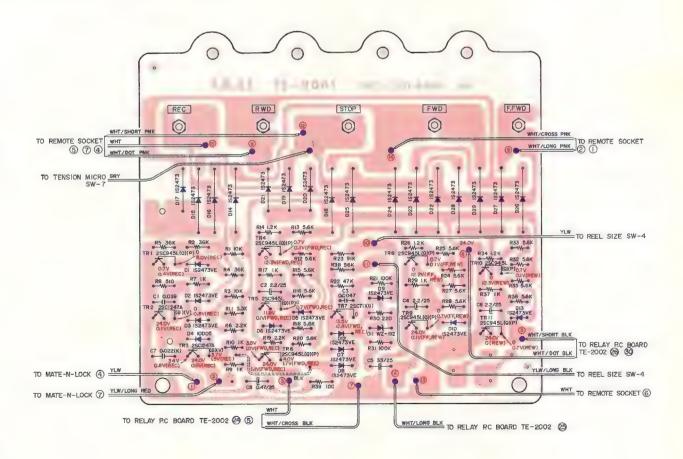
P.C Board	GX-630D	GX-630DB
Sys Con P.C Board	TE-2001	TE-2001
Relay P.C Board	TE-2002	TE-2002
Speed Switch P.C Board	TE-5001	TE-5001
Rec Mode P.C Board	TE-5003	TE-5003
SRT P.C Board	*TD-5201	*TD-5201
Dolby P.C Board		TD-5301 4ED
Servo P.C Board	MY-2036 2ED	MY-2036 2ED
Rec & Osc Amp P.C Board	*MY-5016 3ED	*MY-5016 3ED
P.B Amp P.C Board	MY-5017 2ED	MY-5017 2ED
Transistor P.C Board	KJ-2049	KJ-2049
Jack Plate P.C Board	LE-5622	LE-5622

Chart 5

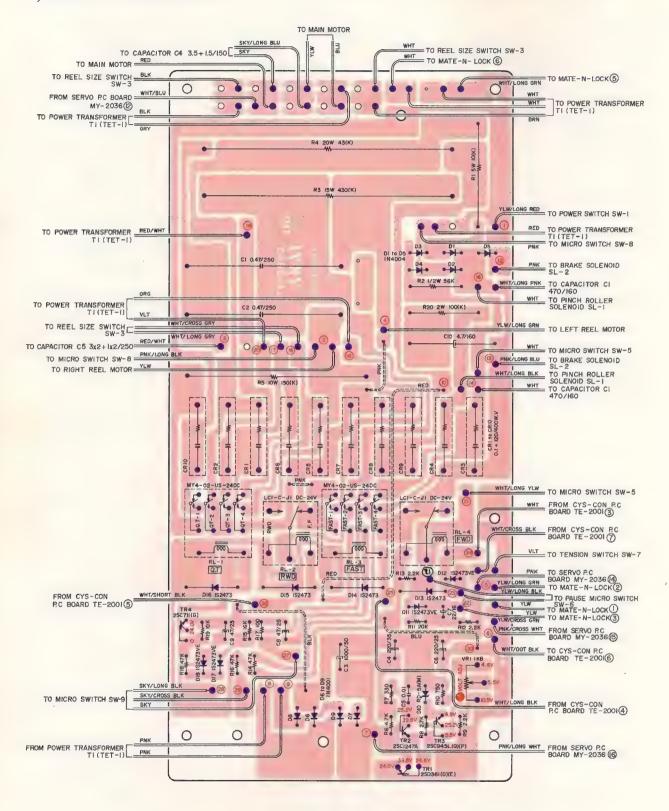
NOTE: * Mark not interchangeable

2. COMPOSITE VIEWS OF VARIOUS P.C BOARDS

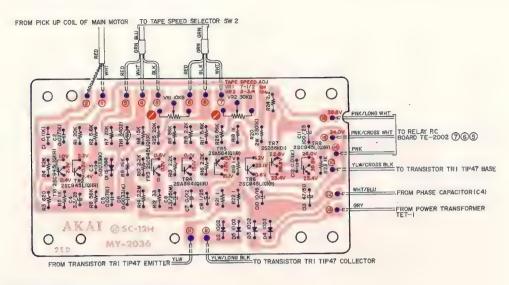
1) CYSCON P.C BOARD TE-2001



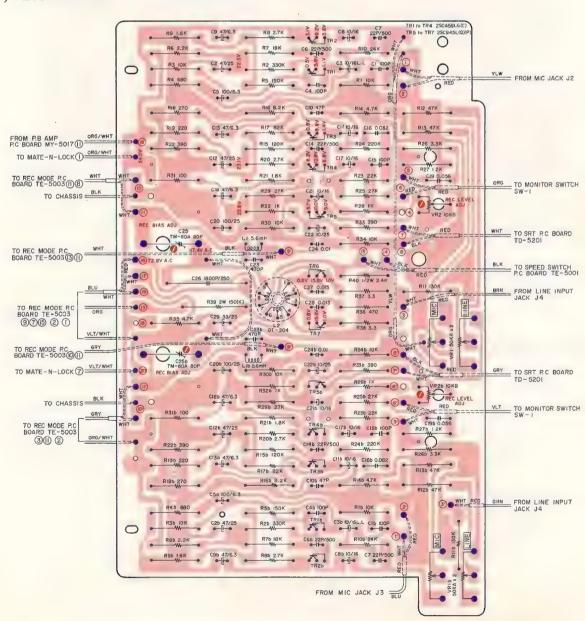
2) RELAY P.C BOARD TE-2002



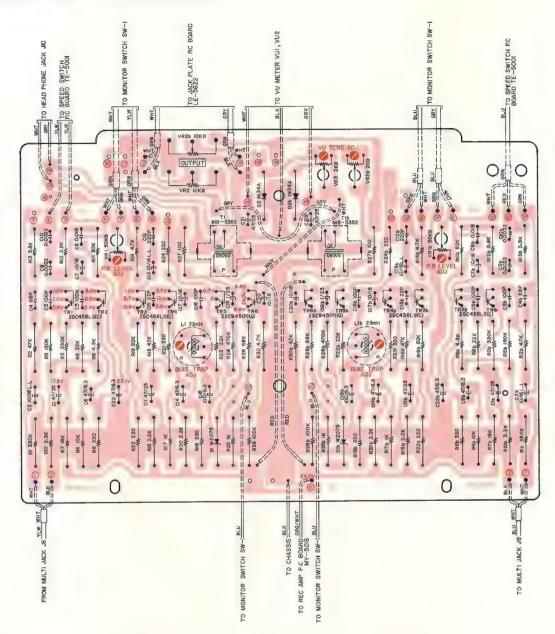
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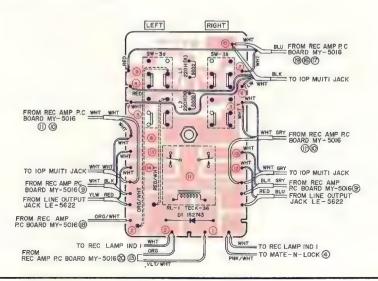
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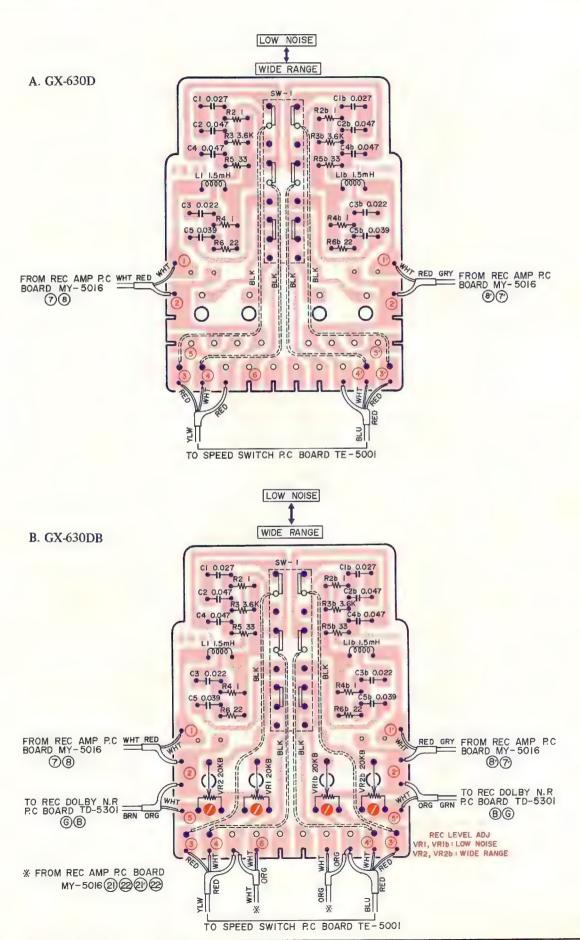
5) PLAYBACK AMP P.C BOARD MY-5017



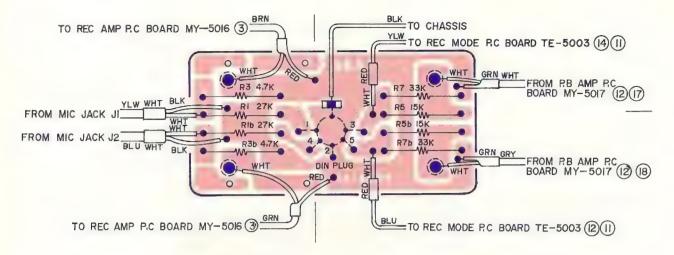
6) RECORDING MODE P.C BOARD TE-5003



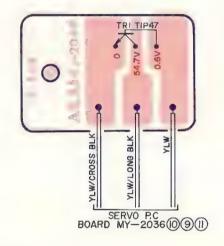
7) SRT P.C BOARD TD-5201



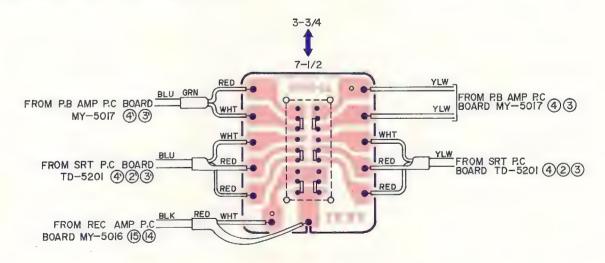
8) JACK PLATE P.C BOARD LE-5622



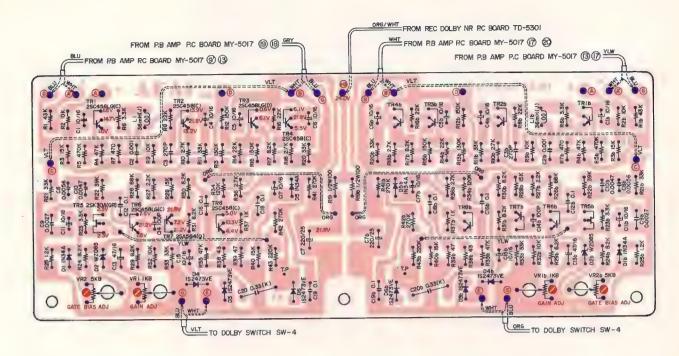
9) TRANSISTOR P.C BOARD KJ-2049



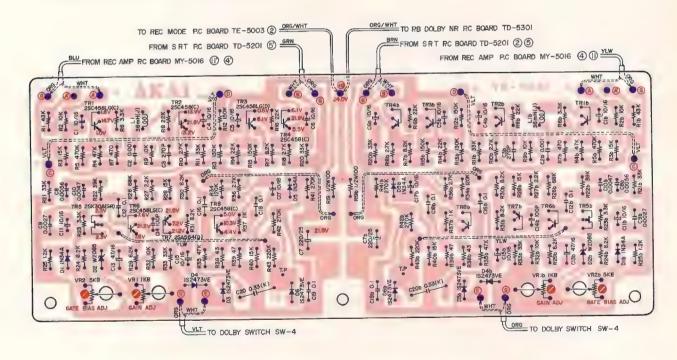
10) SPEED SWITCH P.C BOARD TE-5001



11) P.B DOLBY N.R P.C BOARD TD-5301



12) REC DOLBY N.R P.C BOARD TD-5301



SECTION 2

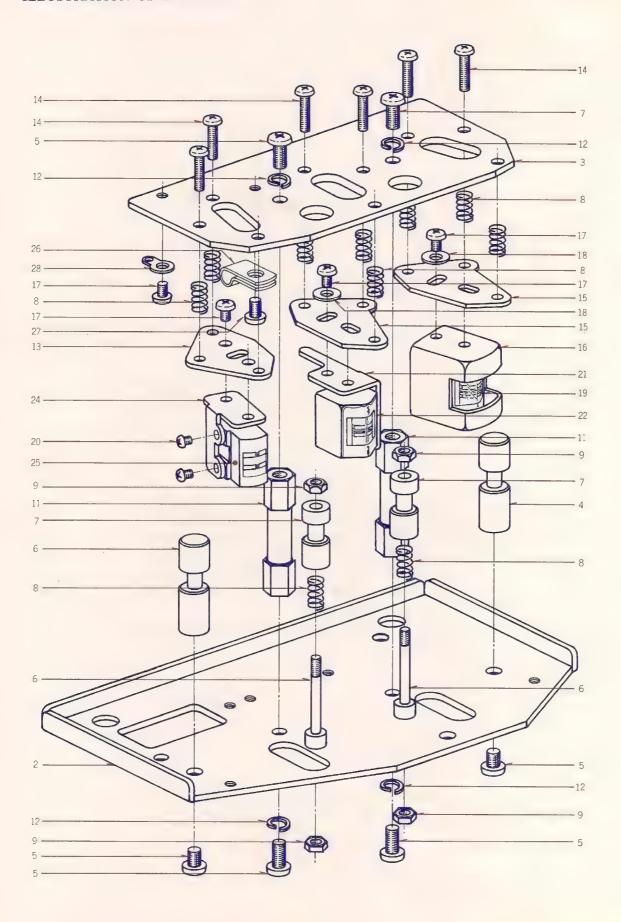
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Some of the parts in this parts list are only available as a complete assembly, and can not be supplied as individual parts.

I ILLUSTRATION OF HEAD BLOCK



1) HEAD BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
1-1 x	BH638008	Head Block Comp.		
		GX-630D/DB		1
1-2	HZ643544	Head Base	TE-0001	1
1-3	HZ645298	Head Base C	TD-0001	1
1-4	HZ803597	Tape Guide A	RD-3	2
1-5	ZS537006	Screw, binding head 4x8		6
1-6	MH578957	Tape Guide Prop	TD-0003	2
1-7	HZ532710	Tape Guide B	TW-0006	2
1-8	ZG466312	Angle Adjust Spring E	BS-0018	11
1-9	ZW273835	Nut M3		4
1-10x	ZW273745	Spring Washer M3		2
1-11	MH529233	Head Base Prop B	ND-0017	2
1-12.	ZW273914	Spring Washer M4		4
1-13	HZ532732	CH Retaining Base	TW-0008	1
1-14	ZS562432	Screw, binding head 3x13		9
1-15	HZ532765	PH Retaining Base	TW-0010	2
1-16	HZ532776	Shield Case	TW-0011	1
1-17	ZS396000	Screw, binding head 3x4		7
1-18	ZW413256	Washer (SPC) D3.4x7.8x0.5t		2
1-19	HP536501	PB. HEAD P4-202		1
1-20	ZS394525	Screw, binding head 2x3		2
1-21	HA533597	RH Angle	TW-0201	1
1-22	HR384513	REC. HEAD R4-200		1
1-23x	ZS460438	Screw, binding head 2x3		2
1-24	HA533608	EH Angle	TW-0202	1
1-25	HE563220	ERASE HEAD E4-260		1
1-26	EJ315101	Nylon Clip HP-4N	2-7-38	1
1-27	ZS355511	Screw, binding head 3x6		1
1-28	ZW273881	Earth Lug M4		1

2) MAIN MOTOR BLOCK

Ref. No.	Parts No.	Description	Schematic -Q'	'ty
2-1x	BM637975	Main Motor Block		
		(SCM2-24KJ) Comp.	KJ,MY,NE,TE	1
2-2	ZW597543	Thrust Washer A	KJ-7009	2
2-3	ZW597622	Felt Washer	KJ-7022	1
2-4	SK597633	Cap	KJ-7023	1
2-5	BZ600300	Detector Gear Block Comp.	KJ,MY,NE,TE	1
2-6	MV368886	Steel Ball D3		1
2-7	MZ650046	Motor Shield Plate	TE-7008	1
2-8	MZ597644	Thrust Angle	KJ-7024	1
2-9	MZ597690	Ball Holder	KJ-7029	1
2-10	MS597655	Thrust Holding Prop	KJ-7025	2
2-11	ZS413234	Screw, pan head 4x12		4
2-12	ZW603786	Adjust, Washer (U)		
		D4x13x0.2t		2
2-13x	ZW603797	Adjust, Washer (U)		
		D4x13x0.5t		2
2-14x	ZW603764	Adjust, Washer (U)		
		D4x13x1.2t		2
2-15x	ZW603775	Adjust, Washer (U)		
	1	D4x13x1.6t		2
2-16	EZ627862	Coil End Shield Plate	MY-7001	1

2 ILLUSTRATION OF MAIN MOTOR BLOCK

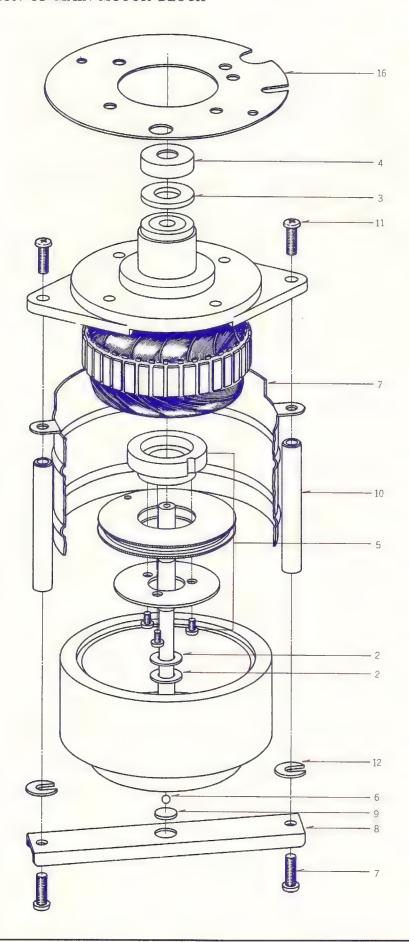
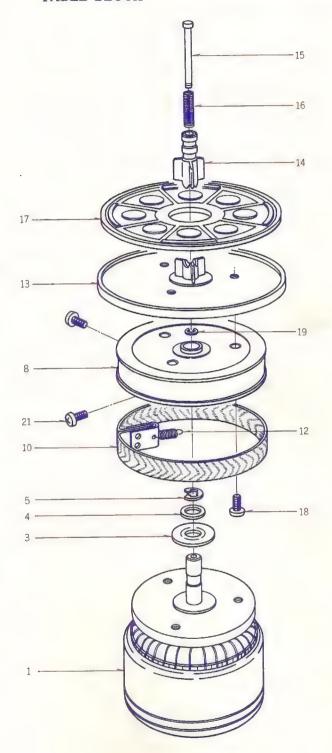
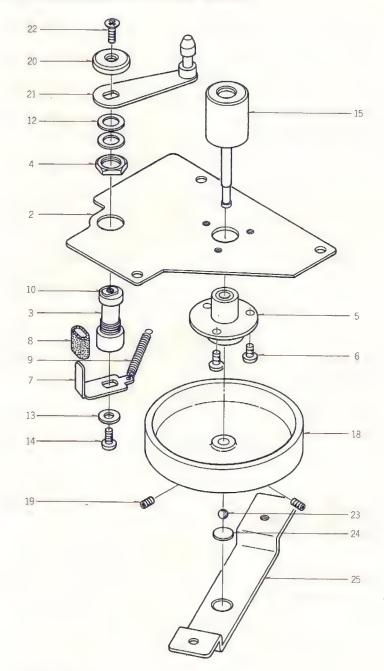


ILLUSTRATION OF REEL MOTOR/REEL 3) REEL MOTOR/REEL ȚABLE BLOCK 3 TABLE BLOCK



Ref. No.	Parts No.	Description	Schematic No.	Q'ty
	REEL MOT	OR BLOCK		
3-1	BM587518	Reel Motor Block (24XO-TD)	
		Comp.	TD,TE,TY	1
3-2x	MV408510	Bearing 608VVMC2ERAV2I	,	1
3-3	MZ248185	Bearing Retainer	3R-758	1
3-4	ZW260278	Washer (Nylon) D8.1x13x0.5	5t	1
3-5	ZW270156	'E' Ring 6M	6-1-9	1
	REEL TAB!	LE BLOCK		
3-6x	BR587542	Reel Table Block (Left)	TD,TE	1
3-7x	BR587553	Reel Table Block (Right)	TD,TE	1
3-8	MT577473	Brake Drum Left B	MR-216	1
3-9x	MZ576538	Brake Drum Light B	MR-216	1
3-10	MT436860	Braké Cloth Comp.	MR-269	1
3-11x	MT317485	U Metal Fitting	MR-218	1
3-12	ZG317496	Felt Tension Spring	MR-260	1
3-13	MT534666	Reel Table	TW-2031	1
3-14	MT534677	Reel Clamper	TW-2032	1
3-15	MS342000	Reel Shaft	3R-108	1
3-16	ZG540617	Clamp Spring	TW-2096	1
3-17	MT534688	Reel Table Rubber	TW-2033	1
3-18	ZS413785	Screw, binding head 3x12		3
3-19	ZW270088	'E' Ring 1.9M	6-1-9	1
3-20x	ZW562476	Earth Lug M3		1
3-21	ZS435273	Screw, binding Head 4x10		2

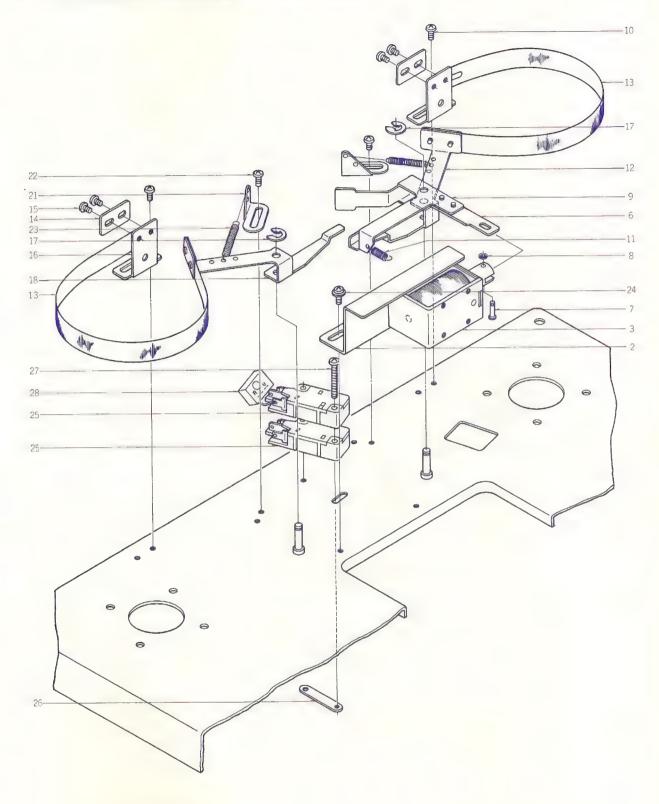
4 ILLUSTRATION OF IMPEDANCE ROLLER BLOCK



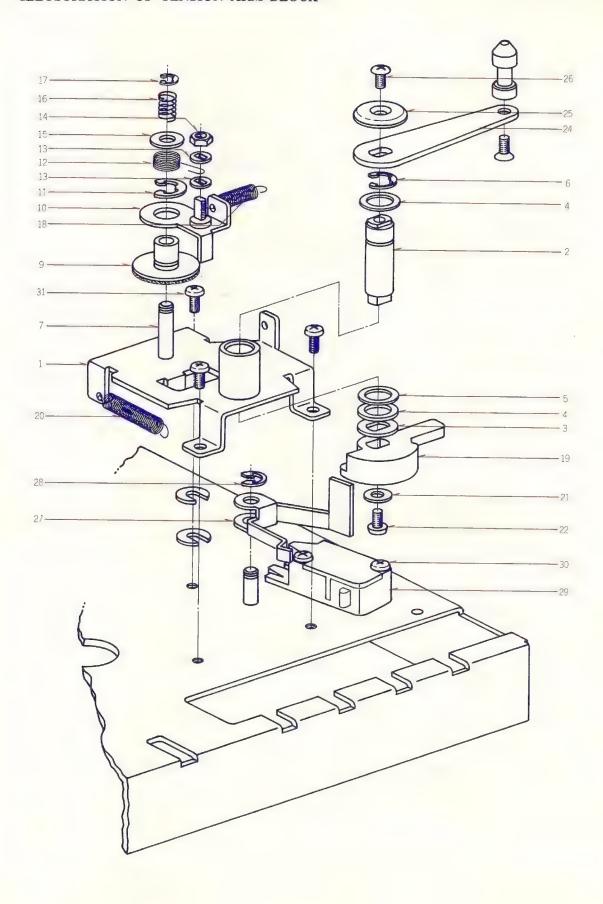
4) IMPEDANCE ROLLER BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty	Ref. No.	Parts No.	Description	Schematic No.	Q'ty
4-1x	BI637931	Impedance Roller Block			4-15	MR597115	Impedance Roller, w/shaft	KJ-2033	1
		Comp.	TE	1	4-16x	MZ597126	Roller Plate	KJ-2035	1
4-2	MZ643375	Impedance Plate	TE-2004	1	4-17x	ZW655953	Washer D4.1x10x1t		1
4-3	MV643386	Shaft Metal	TE-2005	1	4-18	MI597183	Flywheel	KJ-2041	1
4-4	ZW603990	Metal Nut	6-3-9	1	4-19	ZS593796	Set Screw, hexagon socket		
4-5	MZ597093	Metal Case, w/metal	KJ-2029	1			3x6 (Flat/P.)		2
4-6	ZS499331	Screw, pan head 2.3x5		3					
4-7	MZ643408	Stopper	TE-2007	1					
4-8	MB665561	TE Stopper Rubber	TE-2039	1	4-20	ZW535094	Decorative Washer	TW-2077	1
4-9	ZG535105	Tension Arm Spring	TW-2078	1	4-21	MZ643858	T Arm, w/Guide	TE-2003	1
4-10	MS643397	Shaft	TE-2006	1	4-22	ZS411660	Screw, oval countersunk hea	d	
4-11x	ZS481724	ISO Screw, truss head 3x6		1			3x6	5	2
4-12	ZW260010	Washer (PBP) D6.1x10x0.1t		. 3	4-23	MV269965	Steel Ball D4		1
4-13	ZW556828	Washer D3.5x10x0.5t		1	4-24	ZW235585	Nylon Plate D8		1
4-14	ZS417216	Screw, pan head 3x4		1	4-25	MZ640664	Thrust Supporting Plate	TE-2022	1

5 ILLUSTRATION OF BRAKE PLUNGER BLOCK



6 ILLUSTRATION OF TENSION ARM BLOCK



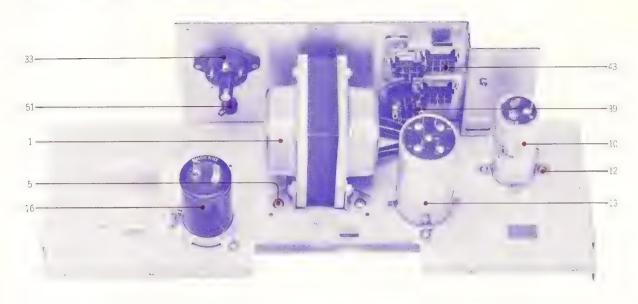
5) BRAKE PLUNGER BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
5-1 x	BZ637986	Brake Plunger Block Comp.	TE	1
5-2	MZ643498	Plunger Retaining Plate	TE-2016	1
5-3	EP638695	Plunger Solenoid 1240PHT3	44-1-80	1
5-4x	ED570273	Silicon Diode LN4004	45-2-59	1
5-5x	ZS422076	Screw, pan head 3x5		2
5-6	ML643476	Brake Plunger Lever	TE-2014	1
5-7	MH257477	Connecting Pin	RD-211	1
5-8	ZW270088	'E' Ring 1.9M	6-1-9	1
5-9	ML643387	Brake Band Lever	TE-2015	1
5-10	ZS323728	Screw, binding head 3x5		6
5-11	ZG586427	Reverse Spring	CP-1192	1
5-12	ML533643	Brake Lever B	TW-1030	1
5-13	MT314987	Brake Band	MR-213	2
5-14	MZ314998	Brake Band Retaining Plate	MR-212	4
5-15	ZS417137	Screw, binding head 3x4		8
5-16	ML582074	Brake Band Support	TD-1023	2
5-17	ZW290283	'U' Ring 2.85M	6-1-1	2
5-18	ML582041	Brake Lever A	TD-1019	1
5-19x	MZ317406	Brake Band Guide	MR-120	2
5-20x	ZS413166	Screw, round head 3x6		4
5-21	MZ314605	Spring Rack, MR	MR-104	2
5-22	ZS379405	ISO Screw, binding head 3x6		4
5-23	ZG540090	Brake Lever Spring	TW-1058	2
5-24	ZS422076	Screw, pan head 3x5		2
5-25	ES573456	Micro SW. K-2	25-1-30	2
5-26	ZW397146	Micro SW. Nut	KD-1057	1
5-27	ZS608354	Scres, pan head 3x30		2
5-28	ER450786	Spark Quencher U/L		
		0.1 µ+120ohm 400WV	41-1-33	1

6) TENSION ARM BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
6-1	ML580443	Tension Arm Base, w/metal	TD-2037	1
6-2	MS645502	Tension Shaft	TD-2041	1
6-3	ZW580498	Tension Arm Washer	TD-2042	1
6-4	ZW575763	Washer (SPC) D8.1x13x0.5t		2
6-5	ZW260256	Washer (PBP) D8.1x13x0.1t		2
6-6	MH244710	Flywheel Fixing Pin	900-250	1
6-7	MH580588	Damper Prop	TD-2052	1
6-8x	TC387617	Clutch Felt	CS-2011	1
6-9	MZ580577	Clutch Plate, w/metal A	TD-2051	1
6-10	ML580555	Clutch Lever, w/spring		
		retainer	TD-2048	1
6-11	ZW270156	'E' Ring 6M	6-1-9	1
6-12	ZG580511	Clutch Spring	TD-2044	1
6-13	ZW580678	Spring Retaining Washer	TD-2067	2
6-14	ZW273756	Nut M3		2
6-15	ZW575774	Washer D4.5x9.8x0.7t		1
6-16	ZG580533	Cramp Spring	TD-2046	1
6-17	ZW410051	'E' Ring 2.5	6-1-9	1
6-18	ZG580522	Clutch Lever Spring	TD-2045	1
6-19	MZ580500	Cam. SW.	TD-2043	1
6-20	ZG659608	Tension Spring	TE-2034	1
6-21	ZW550642	Washer (SPC) D3.1x7.9x0.5t	t	1
6-22	ZS323728	Screw, binding head 3x5		1
6-23x	MZ810191	Cushion Rubber, RD	RD-278	1
6-24	ML580465	Tension Arm, w/guide B	TD-2039	1
6-25	ZW535094	Decorative Washer	TW-2077	1
6-26	ZS200384	Screw, countersunk head 3x		1
6-27	MZ580680	Actuator	TD-2068	1
6-28	ZW290283	'U' Ring 2.85M	6-1-1	1
6-29	ES573456	Micro SW. K-2	25-1-30	2
6-30	ZS508354	Screw, pan head 3x30		2
6-31	ZS413155	Screw, binding head 3x6		4

7 PHOTO OF POWER SUPPLY/CONNECTOR PANEL BLOCK

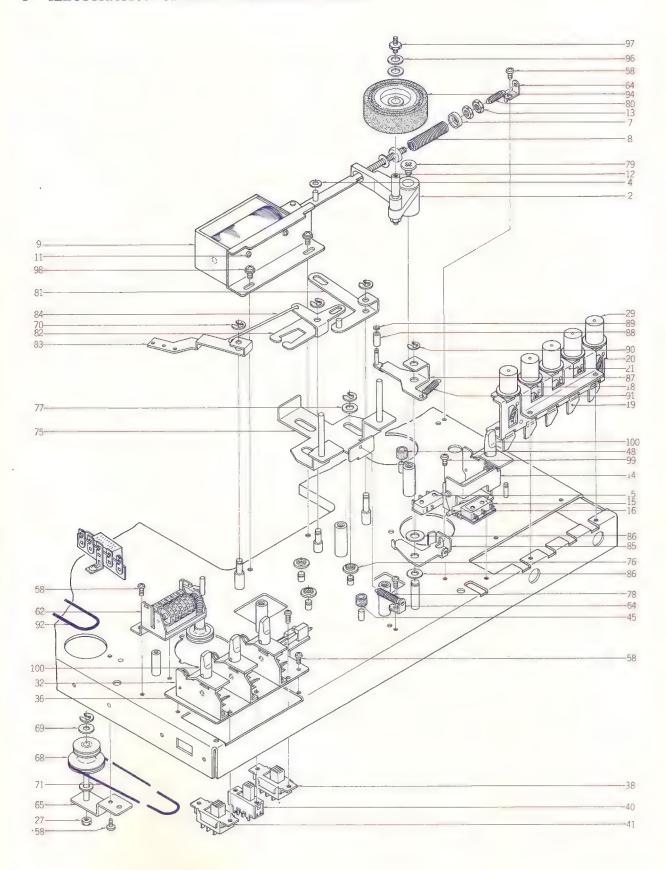


7) POWER SUPPLY/CONNECTOR PANEL BLOCK

Ref. No.	Parts No	Descritpion	Schematic No.	Q'ty
	POWER SUF	PLY BLOCK		
7-1	BT640517	Power Trans. TET-1	38-4-354	1
7-2x	BT661858	Power Trans. TET-5 (CEE)	38-4-389	1
7-3x	BT661926	Power Trans. TET-4 (CSA)	38-4-388	1
7-4x	BT661904	Power Trans. TET-3 (JPN)	38-4-387	1
7-5	ZW510827	Tapping Screw #2 4x6 BR		4
7-6x	ZS413201	Screw, pan head 4x8		
		(CEE, CSA, JPN)		4
7-7x	ZW273892	Toothed Lock Washer M4		
		(CEE)		4
7-8x	ZW413188	Nut M4 (CEE, CSA, JPN)		4
7-9x	ZW273914	Spring Washer M4 (CSA, JPN)		4
7-10	EC593763	MP/C. 3.5+1.5μF 150WV AC		
		(LUG Type Uni/D.)	24-9-88	1
7-11x	EC661882	MP/C. 5μF 150WV AC		
		(Lug Type Uni/D.) (CEE)	24-9-111	1
7-12	ZS325495	Tapping Screw #2 3x6		13
7-13	EC520626	MP/C. (3+1)μFx2 250WV AC		
		(Lug Type Uni/D.)	24-9-74	1
7-14x	EC641136	MP/C. 4+4 μF 250WV AC		
		(Lug Type Uni/D.) (CEE)	24-9-103	1
7-15x	EC536927	MP/C. 3μ Fx2 250WV AC		
	4	(Lug Type Uni/D.) (CSA)	24-9-79	1
7-16	EC557190	Elect./C. 470µF 160WV		
		(Lug Type)	24-10-88	1
7-17x	EF623103	Fuse 1AT (SEMKO T Type)		
		(CEE)	39-1-53	5
7-18x	EF487427	Fuse ULMF61M 250V 0.2A		
		(CSA)	39-1-45	1
7-19x	EF511637	Fuse ULMF61M 250V 1A		
		(CSA)	39-1-45	4
7-20x	EF588420	Fuse 1A 125V (JPN)	39-1-52	5
7-21x	EF654210	Fuse 0.25A 125V (JPN)	29-1-52	1
7-22x	EA642701	Repeter P.C Board (CEE)	33-2-52	1
7-23x	EZ614586	Fuse Table MY (CEE)	MY-2043	1
7-24x	ZS379350	ISO Screw, pan head 3x6		
		(CEE)		2
7-25x	EC650968	Thermister (SINE) PTH62AR		
		100M (CEE,CSA,JPN)	45-14-3	2

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
7-26x	EJ654221	Lug Plate KPL4L		
		(CEE,CSA,JPN)	33-3-26	1
7-27x	ZW273881	Earth Lug M4 (CEE)		1
7-28x	ZS417150	Screw, pan head 4x6 (CEE)		1
7-29x	ZW413188	Nut M4 (CEE)		1
7-30x	ZW273892	Toothed Lock Washer M4		
		(CEE)		1
7-31x	MT553948	Wire Band B	2-35-3	2
7-32x	EJ510333	Wire Clip 220-JD481610-010		
		(Nylon)	2-7-17	1
7-33	EJ233370	Socket (Volt. Selector)	10.00	
		S-18010	40-2-3	1
7-34x	EZ654208	Fuse Holder TE (CEE, JPN)	40-1-74	1
7-35x	EZ655198	Fuse Holder 5P Base (CSA)	40-1-71	1
7-36x	MZ583198	Fuse Angle TD	TD-1067	2
		(CEE,CSA,JPN)	I D-1001	2
7-37x	ZS379350	ISO Screw, pan head 3x6 (CEE,CSA,JPN)		2
7-38x	EF623114	Fuse (SEMKO T Type)		_
7-30X	EF023114	200MAT (C1200MAT (CEE)	39-1-53	1
	CONNECTO	OR PANEL BLOCK		•
7.30	EJ222748	Socket, Sub Magnale #311SC	31-1-39	1
7-39	MZ302400	Remote Control Socket	3 01 1 00	-
7-40x	WI Z 302400	Mt. Plate	RX-515	1
7-41x	ZS355522	Screw, pan head 3x6	1121 010	5
7-41X	ML580612	F SW. Table A	TD-2059	1
7-42x	ES479485	Slide SW. S-1	25-3-66	3
7-43 7-44x	ZS422076	Screw, pan head 3x5		4
7-44x	ZS327835	ISO Screw, countersunk head	đ	
/-43X	2032/033	3x5		2
7-46x	MZ580601	F SW. Plate	TD- 2058	
7-40x	EA597251	Transistor P.C Board	KJ-2049	1
7-47x	ET621786	Transistor T1P-48	45-1-197	1
7-40x	ZS421806	Screw, pan head 3x8	20	1
7-49X	ZW516611	Nut M3		1
7-50x	EJ631945	Strain Relief SR-4N-4	2-7-49	1
7-51 7-52x	EZ246936	Strain Relief SR-6W-1 (CEE)	2-7-8	1
1-32X	22240730			

8 ILLUSTRATION OF MECH ASSEMBLY BLOCK



8) MECH ASSEMBLY BLOCK

Ref.	Parts No.	Description	Schematic	Q'ty
No.		LER PLUNGER BLOCK	No.	
8-1x	BZ637918	Pinch Roller Plunger Block		
0.1 X	DLU3/710	Comp.	TE	1
8-2	ML396933	Pinch Roller Arm	KD-1030	1
8-3	MZ580781	Pinch Roller Arm Joint,	1000	•
0-5	MZJOO701	w/pin	TD-2079	1
8-4	ZW345442	Washer (Nylon) D4.2x9x1t	12 2013	î
8-5x	MH533913	Connecting Pin	TW-2010	1
8-6x	ZW270088	'E' Ring 1.9M	6-1-9	2
8-7	MZ802980	Spring Holder	RD-276	2
8-8	ZG428927	Pinch Roller Cramp Spring B	KD-1032	1
8-9	EP573658	Plunger Solenoid 1660THT-3		1
8-10	MZ581275	PR Plunger Bracket	TD-1061	1
8-11	ZS323728	Screw, binding head 3x5	10 1001	2
8-12	MS582153	Pinch Roller Shaft	TD-1033	1
8-13	ZW416698	Nut M4		6
0-15	211110000	1140 112		
	PAUSE SWI	TCH BLOCK		
8-14	BS637920	Pause Switch Block Comp.	TE	1
8-15	ES389700	Micro SW. SS-5	25-1-19	2
8-16	MZ605283	SW. Actuator	CW-106Q	1
	OPERATION	N BLOCK		
8-17x	BZ637953	Operation Block Comp.	TE	1
8-18	MZ640675	Operation Bracket	TE-2023	1
8-19	ML630887	Operation Lever	MY-2202	5
8-20	ZG456120	Setting Lever Spring	CS-1187	5
8-21	MZ640383	Operation Holder	TE-2025	1
8-22x	ZS325495	Tapping Screw #2 3x6		6
8-23x	EZ640686	P.C Board Support A	TE-2024	1
8-24x	EZ640372	P.C Board Support B	TE-2024	1
8-25x	ZS609298	Screw, flat fillister head		~
JA		3x6		5
8-26x	ZW273802	Toothed Lock Washer M3		5
8-27	ZW516611	Nut M3		13
8-28x	SB643500	Button A	TE-2017	1
8-29	SB643577	Button B	TE-2017	2
8-30x	SB640732	Button C	TE-2017	1
8-31x	SB640743	Button D	TE-2017	1
	LEVER SWI	TCH BLOCK		
8-32	BS637997	Lever Switch Block Comp.	TE	1
8-33x	BS660227	Lever Switch Block Comp.		
_ JUA		(CEE)	TE	1
8-34x	BS660238	Lever Seitch Block Comp.		
J - A	2-300200	(CSA)	TE	1
8-35×	BS660240	Lever Switch Block Comp.		
JUJA	DOUGNATO	(JPN)	TE	1
8-36	MZ643522	SW. Plate	TE-2019	1
8-37	ES563387	Leaf SW. BSW-1A	25-10-19	1
8-38	ES479496	Slide SW. S-2	25-3-67	1
8-39x		Slide SW. JE1 (CEE)	25-3-63	1
8-40	ES422436	Slide SW. SL-222B4C	25-3-40	1
8-41	ES479485	Slide SW. S-1	25-3-66	1
			25-3-116	1
8-42x	ES642677	Slide SW. JE08 (CEE)	20 0 110	
	ES642677 ES641068	Slide SW. JE08 (CEE) Slide SW. JE06 (CSA,JPN)	25-3-114	1
		The state of the s		
	ES641068	Slide SW. JE06 (CSA,JPN)		
8-43x	ES641068	The state of the s		
8-43x 8-44x	ES641068 MECH. ASS	Slide SW. JE06 (CSA,JPN) EMBLY BLOCK	25-3-114	1
8-43x 8-44x 8-45	ES641068 MECH. ASS ML581883 MZ810191	Slide SW. JE06 (CSA,JPN) EMBLY BLOCK Shifter Stopper	25-3-114 TD-1002	2
8-43x 8-44x 8-45 8-46x	ES641068 MECH. ASS ML581883	Slide SW. JE06 (CSA,JPN) EMBLY BLOCK Shifter Stopper Cushion Rubber, RD	25-3-114 TD-1002 RD-278	1 2 1
8-44x 8-44x 8-45 8-46x 8-47x	MECH. ASS ML581883 MZ810191 MH581894	Slide SW. JE06 (CSA,JPN) EMBLY BLOCK Shifter Stopper Cushion Rubber, RD Head Base Prop	25-3-114 TD-1002 RD-278	1 2 1 3
8-44x 8-45 8-46x 8-47x 8-48	MECH. ASS ML581883 MZ810191 MH581894 ZS413201	Slide SW. JE06 (CSA,JPN) EMBLY BLOCK Shifter Stopper Cushion Rubber, RD Head Base Prop Screw, pan head 4x8	25-3-114 TD-1002 RD-278 TD-1003	1 2 1 3 3
8-44x 8-45 8-46x 8-47x 8-48 8-49x	MECH. ASS ML581883 MZ810191 MH581894 ZS413201 MB606712	Slide SW. JE06 (CSA,JPN) EMBLY BLOCK Shifter Stopper Cushion Rubber, RD Head Base Prop Screw, pan head 4x8 Stopper Rubber KJ	25-3-114 TD-1002 RD-278 TD-1003 KJ-2060	1 2 1 3 3 1
8-44x 8-45 8-46x 8-47x 8-48 8-49x 8-50x	MECH. ASS ML581883 MZ810191 MH581894 ZS413201 MB606712 MH581940	Slide SW. JE06 (CSA,JPN) EMBLY BLOCK Shifter Stopper Cushion Rubber, RD Head Base Prop Screw, pan head 4x8 Stopper Rubber KJ Shifter Lever Post A	25-3-114 TD-1002 RD-278 TD-1003 KJ-2060 TD-1008	1 2 1 3 3 1 1
8-44x 8-45 8-46x 8-47x 8-48 8-49x 8-50x 8-51x	ES641068 MECH. ASS ML581883 MZ810191 MH581894 ZS413201 MB606712 MH581940 MH581927 MH581951	Slide SW. JE06 (CSA,JPN) EMBLY BLOCK Shifter Stopper Cushion Rubber, RD Head Base Prop Screw, pan head 4x8 Stopper Rubber KJ Shifter Lever Post A Shifter Guide Post	25-3-114 TD-1002 RD-278 TD-1003 KJ-2060 TD-1008 TD-1006	1 2 1 3 3 1 1 3
8-44x 8-45 8-46x 8-47x 8-49x 8-50x 8-51x 8-52x	MECH. ASS ML581883 MZ810191 MH581894 ZS413201 MB606712 MH581940 MH581927 MH581951 MH581962	Slide SW. JE06 (CSA,JPN) EMBLY BLOCK Shifter Stopper Cushion Rubber, RD Head Base Prop Screw, pan head 4x8 Stopper Rubber KJ Shifter Lever Post A Shifter Guide Post Spring Lever Post	25-3-114 TD-1002 RD-278 TD-1003 KJ-2060 TD-1008 TD-1006 TD-1010	1 2 1 3 3 1 1 3 1
8-44x 8-45 8-46x 8-47x 8-48 8-49x 8-50x 8-51x 8-52x 8-53x	MECH. ASS ML581883 MZ810191 MH581894 ZS413201 MB606712 MH581940 MH581927 MH581951 MH581962 MH581962 MH581973	Slide SW. JE06 (CSA,JPN) EMBLY BLOCK Shifter Stopper Cushion Rubber, RD Head Base Prop Screw, pan head 4x8 Stopper Rubber KJ Shifter Lever Post A Shifter Guide Post Spring Lever Post B	25-3-114 TD-1002 RD-278 TD-1003 KJ-2060 TD-1008 TD-1006 TD-1010 TD-1011	1 2 1 3 3 1 1 1 3
8-44x 8-45 8-46x 8-47x 8-48 8-49x 8-50x 8-51x 8-52x 8-53x 8-54x	ES641068 MECH. ASS ML581883 MZ810191 MH581894 ZS413201 MB606712 MH581940 MH5819927 MH581951 MH581962 MH581973 MH581984	Slide SW. JE06 (CSA,JPN) EMBLY BLOCK Shifter Stopper Cushion Rubber, RD Head Base Prop Screw, pan head 4x8 Stopper Rubber KJ Shifter Lever Post A Shifter Guide Post Spring Lever Post B Brake Lever Post B	25-3-114 TD-1002 RD-278 TD-1003 KJ-2060 TD-1008 TD-1010 TD-1011 TD-1011	2 1 3 3 1 1 3 1 1
8-44x 8-45 8-46x 8-47x 8-48 8-49x 8-50x 8-51x 8-52x 8-53x 8-54x 8-55x	ES641068 MECH. ASS ML581883 MZ810191 MH581894 ZS413201 MB606712 MH581940 MH581927 MH581951 MH581962 MH581973 MH581984 MH580691	Slide SW. JE06 (CSA,JPN) EMBLY BLOCK Shifter Stopper Cushion Rubber, RD Head Base Prop Screw, pan head 4x8 Stopper Rubber KJ Shifter Lever Post A Shifter Guide Post Spring Lever Post B Brake Lever Post B Actuator Prop	TD-1002 RD-278 TD-1003 KJ-2060 TD-1008 TD-1010 TD-1011 TD-1011 TD-1012 TD-1013	2 1 3 3 1 1 1 1 1
8-44x 8-45 8-46x 8-47x 8-48 8-49x 8-50x 8-51x 8-52x 8-53x 8-54x 8-55x 8-56x	ES641068 MECH. ASS ML581883 MZ810191 MH581894 ZS413201 MB606712 MH581940 MH581927 MH581951 MH581962 MH581962 MH581973 MH581984 MH580691 MH640350	Slide SW. JE06 (CSA,JPN) EMBLY BLOCK Shifter Stopper Cushion Rubber, RD Head Base Prop Screw, pan head 4x8 Stopper Rubber KJ Shifter Lever Post A Shifter Guide Post Spring Lever Post Shifter Lever Post B Brake Lever Post A Brake Lever Post B Actuator Prop Shifter Lock Arm Prop	TD-1002 RD-278 TD-1003 KJ-2060 TD-1008 TD-1010 TD-1011 TD-1012 TD-1013 TD-2069	1 2 1 3 3 1 1 1 1 1 1
8-44x 8-45 8-46x 8-47x 8-49x 8-50x 8-51x 8-52x 8-52x 8-55x 8-55x 8-57x	ES641068 MECH. ASS ML581883 MZ810191 MH581894 ZS413201 MB606712 MH581940 MH581927 MH581951 MH581962 MH581973 MH581984 MH580691 MH640350 MH642565	Slide SW. JE06 (CSA,JPN) EMBLY BLOCK Shifter Stopper Cushion Rubber, RD Head Base Prop Screw, pan head 4x8 Stopper Rubber KJ Shifter Lever Post A Shifter Guide Post Spring Lever Post Shifter Lever Post B Brake Lever Post B Actuator Prop Shifter Lock Arm Prop	TD-1002 RD-278 TD-1003 KJ-2060 TD-1008 TD-1010 TD-1011 TD-1011 TD-1013 TD-2069 TE-1003	1 2 1 3 3 1 1 1 1 1 1
8-47x 8-48 8-49x 8-50x 8-51x 8-52x 8-53x 8-54x 8-55x 8-55x	ES641068 MECH. ASS ML581883 MZ810191 MH581894 ZS413201 MB606712 MH581940 MH581927 MH581951 MH581962 MH581962 MH581973 MH581984 MH580691 MH640350	Slide SW. JE06 (CSA,JPN) EMBLY BLOCK Shifter Stopper Cushion Rubber, RD Head Base Prop Screw, pan head 4x8 Stopper Rubber KJ Shifter Lever Post A Shifter Guide Post Spring Lever Post Shifter Lever Post B Brake Lever Post A Brake Lever Post B Actuator Prop Shifter Lock Arm Prop	TD-1002 RD-278 TD-1003 KJ-2060 TD-1008 TD-1010 TD-1011 TD-1011 TD-1013 TD-2069 TE-1003	1 2 1 3 3 1 1 1 1 1 1 1 1 1 1

Ref.	Parts No.	Description	Schematic	O'ty
	7777440000	-	No.	1
8-61x	ZW413278	Nut M5	9-1-43	1
8-62	MC638684	Counter MP490-23	TE-2011	1
8-63x	MZ643443	Counter Base	TD-1018	2
8-64	MZ582030	Spring Hanger		
8-65	ML580127	Middle Pulley Base	TD-1050	1
8-66x	MS580116	Middle Pulley Shaft	TD-1049	1
8-67	ZW259773	Washer (Nylon) D4.1x7x0.5t		1
8-68	MR580105	Middle Pulley, w/metal	TD-1048	1
8-69	ZW259738	Washer (Polyslider)		
		D4.1x7x0.25t		1
8-70	ZW290283	'U' Ring 2.85M	6-1-1	7
8-71	MB580138	Counter Belt D73x1.5	TD-1051	1
8-72x	ES250064	Micro SW. V-1A44 U/L	25-1-7	1
8-73x	MZ402377	Micro Insulator D	KD-2050	1
8-74x	ZS483502	Screw, pan head 3x13		2
8-75	MZ636985	Shifter Plate, w/pin B	TD-1028	1
8-76	ZW580173	Guide Washer	TD-1055	3
8-77	ZW420682	Washer (Nylon) D4.2x9x0.5		3
8-78	ZG582131	Shifter Spring	TD-1030	1
8-79	ZS243516	Screw, pinch roller	XR-140	1
8-80	ZG580770	Pinch Roller Spring	TD-2078	1
8-81	ML646198	Shifter Lever, w/pin	TE-1006	1
8-82	ML582096	Shifter Lever B	TD-1025	1
8-83	ML643847	Spring Lever	TE-1005	1
8-84	MZ582120	Connecting Bar	TD-1029	1
8-85	MZ643454	Shifter Lock Arm A	TE-2012	1
8-86	ZW403200	Washer (SPC) D6.2x13x1t		1
8-87	MZ643465	Shifter Lock Arm B, w/prop	TE-2013	1
8-88	MZ580061	Shifter Rock Collar	TD-1044	1
8-89	ZW270088	'E' Ring 1.9M	6-1-9	1
8-90	ZW270123	'E' Ring 4M	6-1-9	1
8-91	ZG315011	Brake Lever Spring	MR-116	1
8-92	MB527556	Counter Belt D93x1.5	ND-1022	1
8-93x	ZG540090	Brake Lever Spring	TW-1058	2
8-94	MP582164	Pinch Roller D=42	TD-1034	1
8-95	ZW430402	Washer (Nylon) D6.2x10x0.	5t	1
8-96	ZW648685	Washer D6.2x10x0.1t		2
8-97	ZS533766	Pinch Roller Screw	TW-1042	1
8-98	ZS422076	Screw, pan head 3x5		2
8-99	ZS417216	Screw, pan head 3x4		2
8-100	SK638976	Knob 1-C	CP-5018	4
0-100	JA050710	IIIIOO I-O		

9) P.B P.C BOARD (MY-5017) BLOCK

Symbol No.	Parts No.	Description	Q'ty
9-1	BA622732	P.B P.C Board Comp.	
		(MY-5017)	1
9-TR1to4	ET234854	Transistor 2SC458LG(C)	8
9-TR5,6	ET639437	Transistor 2SC945L(Q)(P)	4
9-D1	ED570475	Zener Diode WZ-075	2
9-D2	ED219464	Germanium Diode 1N34A	2
9-L1	EO496361	Inductor 6070GE 23MH(J)	2
9-T1	BT517274	Headphone Trans. N16-535S	2
9-VR1	EV464220	Semi-fixed/Vol. V8K4-1 50 kB	2
9-VR2	EV622056	Co-axial 2-throw Vol.	
		V24L5GPHN B10kx2	1
9-VR3	EV464196	Semi-fixed/Vol. V8K4-1 2 kB	2
•		Capacitor, Vertical Type	
9-C1	EC220678	Elect. 47µF 25WV	2
9-C2	EC432810	Elect. 10µF 16WV NL	2
9-C3	EC290520	VFM 100PF(J) 50WV	2
9-C4	EC467133	VFM 68PF(J) 50WV	2
9-C5	EC290520	VFM 100PF(J) 50WV	2
9-C6	EC329771	Elect. 47µF 6.3WV	2
9-C7	EC320051	Elect. 10µF 16WV	2
9-C8	EC389485	Mylar 0.018µF(J) 50WV	2
9-C9,10	EC250683	Mylar 0.0022µF(J) 50WV	4
9-C11	EC220678	Elect. 47µF 25WV	2
9-C12	EC329850	VFM 220PF(J) 50WV	2
9-C13	EC432810	Elect. 10µF 16WV NL	2
9-C14	EC329771	Elect. 47µF 6.3WV	2
9-C15	EC399565	FM 22PF(J) 50WV	2
9-C16	EC290520	VFM 100PF(J) 50WV	2
9-C17	EC320051	Elect. 10µF 16WV	2
9-C18	EC220364	Elect. 100 µF6.3WV	2
9-C19	EC450055	Elect. 1µF 25WV	2
9-C20	EC320051	Elect. 10µF 16WV	2
9-C21	EC450527	Elect. 4.7μF 25WV	2
9-C22	EC329771	Elect. 47µF 6.3WV	2
	Carbon Res	istor Omitted	

10) REC, OSC P.C BOARD(MY-5016) BLOCK

Symbol No.	Parts No.	Description	Q'ty
10-1	BA647684	Rec., Osc. P.C Board Comp. (MY-5016)	1
10-2	BA647842	Rec., Osc. P.C Board Comp. (MY-5016)(DB)	1
10-TR1,2	ET234854	Transistor 2SC458LG(C)	4
10-TR3,4	ET234854	Transistor 2SC458LG(C)	4
10-TR5,6,7	ET639437	Transistor 2SC945L(Q)(P)	4
10-L1	EO321254	Ferri Inductor FL7H 5.6MH(J)	2
10-L2	EO383365	OSC. Coil OT-204	1
10-VR1	EV622078	Double Vol. V24L5DPHN	
		A50kx2	2
10-VR2	EV520806	Semi-fixed/Vol. V8K4-1 10 kB	2
10-R39	ER515070	Metal Oxide Film/R. 2W	
		150 ohm(F	() 1
10-R40	ER426892	Solid/R. RC1/2 2.4k(J)	1
		Capacitor, Vertical Type	
10-C1	EC290520	VFM 100PF(J) 50WV	2
10-C2	EC220678	Elect. 47µF 25WV	2
10-C3	EC432810	Elect. 10µF 16WV NL	2
10-C4	EC290520	VFM 100PF(J) 50WV	2
10-C5	EC220364	Elect. 100µF 6.3WV	2
10-C6,7	EC399565	FM 22PF(J) 50WV	4
10-C8	EC320051	Elect. 10µF 16WV	2
10-C9	EC329771	Elect. 47µF 6.3WV	2
10-C10	EC377212	VFM 47PF(J) 50WV	2
10-C11	EC320051	Elect. 10µF 16WV	2
10-C12	EC220678	Elect. 47µF 25WV	2
10-C13	EC329771	Elect. 47µF 6.3WV	2
10-C14	EC399565	FM 22PF(J) 50WV	2
10-C15	EC290520	VFM 100PF(J) 50WV	2

Symbol No.	Parts No.	Description	Q'ty
10-C16	EC438041	Mylar 0.082 µF(J) 50WV	2
10-C17	EC320051	Elect. 10µF 16WV	2
10-C18	EC329771	Elect. 47µF 6.3WV	2
10-C19	EC368357	Mylar 0.056 \(\mu \)F(J) 50WV	2
10-C20	EC220151	Elect. 100µF 25WV	2
10-C21	EC320051	Elect. 10µF 16WV	2
10-C22	EC220994	Elect. 10µF 25WV	2
10-C23	EC405898	Styrol 470PF(J) 50WV	2
10-C24	EC250841	Mylor 0.01µF(J) 50WV	2
10-C25	EC558202	Trimmer TM-80A 80PF	2
10-C26	EC558235	Styrol 1800PF(J) 250WV	1
10-C27,28	EC250975	Mylar $0.015\mu F(J)$ 50WV	2
10-C29	EC220612	Elect. 33µF 25WV	1

Carbon Resistor Omitted

11) DOLBY P.C BOARD (TD-5301) BLOCK

Symbol No.	Parts No.	Description	Q'ty
11-1	BA588003	Dolby P.C Board Comp.	
	2000	(TD-5301)	1
11-TR1	ET234854	Transistor 2SC458LG(C)	2
11-TR2	ET329218	Transistor 2SC458(C)	2
11-TR3	ET352146	Transistor 2SC458LG(D)	2
11-TR4	ET329218	Transistor 2SC458(C)	2
11-TR5	ET491051	FET 2SK30A(GR)	2
11-TR6	ET234854	Transistor 2SC458LG(C)	2
11-TR7	ET350335	Transistor 2SA564(Q)	2
11-TR8	ET329218	Transistor 2SC458(C)	2
11-D1	ED219464	Germanium Diode 1N34A	2
11-D2	ED491130	Zener Diode WZ-083	2
11-D3,4	ED560913	Silicon Diode 1S2473 VE	4
11-D5	ED219464	Germanium Diode 1N34A	2
11-D6	ED560913	Silicon Diode 1S2473 VE	2
11-VR1	EV478686	Semi-fixed/Vol. V8K4-1 1 kB	2
11-BR2	EV464207	Semi-fixed/Vol. V8K4-1 5 kB	2
11-L1	EO496350	Inductor 146LY 36 MH(J)	2
11-2	EJ363126	P.C Board Terminal	2
		Capacitor, Vertical Type	
11-C1	EC320051	Elect. 10µF 16WV	2
11-C2	EC350875	Mylar $0.001\mu F(J)$ 50WV	2
11-C3	EC336194	VFM 270PF(J) 50WV	2
11-C4,5	EC320051	Elect. 10µF 16WV	4
11-C6	EC320051	Elect. 10µF 16WV	2
11-C7	EC313121	Elect. 220µF 25WV	2
11-C8	EC329883	Mylar 0.0056µF(J) 50WV	2
11-C9	EC329861	Mylar 0.027μF(J) 50WV	2
11-C10	EC337500	Mylar 0.0047µF(J) 50WV	2
11-C11	EC320051	Elect. 10μF 16WV	2
11-C12	EC379170	Mylar 0.1μF(J) 50WV	2
11-C13	EC320040	Elect. 47µF 16WV	2
11-C14	EC290520	VFM 100PF(J) 50WV	2
11-C15	EC320051	Elect. 10µF 16WV	2
11-C16	EC379170	Mylar $0.1\mu F(J)$ 50WV	2
11-C17	EC320051	Elect. 10µF 16WV	2
11-C18	EC379170	Mylar 0.1μF(J) 50WV	2
11-C19	EC379170	Mylar 0.1μF(J) 50WV	2
11-C20	EC395504	Mylar $0.33\mu F(K)$ 50WV	2
	Carbon Dos	ietor Omittad	

Carbon Resistor Omitted

12) SRT P.C BOARD (TD-5201) BLOCK

Symbol No.	Parts No.	Description	Q'ty	Symbol No.	Parts No.	Description
12-1	BA647796	SRT P.C Board Comp.		14-6	EZ615060	P.C Board Holder B
		(TD-5201)	1	14-7	EZ615071	P.C Board Holder C
12-2	BA647763	SRT P.C Board Comp.		14-R20	ER593346	Cement/R. 2W 330 ohm(K)
		(TD-5201)(DB)	1			(Wire-wound Type)
12-SW1	ES550001	Push SW. 1FS-6U-49	1			
12-L1	EO369178	Ferri Inductor FL7H 1.5 MH(J)	- 2			Capacitor, Vertical Type
12-VR1,2	EV520806	Semi-fixed/Vol. V8K4-1 10 kB		14-C1	EC251291	Mylar $0.1\mu F(K)$ 50WV
		(DB)	4	14-C2	EC251122	Mylar 0.027µF(K) 50WV
				14-C3	EC250582	Mylar $0.0033\mu F(K)$ 50WV
		Capacitor, Vertical Type		14-C4	EC331828	Elect. 3.3μF 25WV
12-C1	EC329861	Mylar $0.027\mu F(J)$ 50WV	2	14-C5	EC251122	Mylar 0.027µF(K) 50WV
12-C2	EC379214	Mylar $0.047\mu F(J)$ 50WV	2	14-C6	EC250582	Mylar 0.0033μF(K) 50WV
12-C3	EC368335	Mylar $0.022\mu F(J)$ 50WV	2	14-C7	EC311793	Mylar 0.012 µF(J) 50WV
12-C4	EC379214	Mylar 0.047μF(J) 50WV	2	14-C8	EC557166	Solid Aluminum 3.3µF 25WV
12-C5	EC379192	Mylar 0.039 µF(J) 50WV	2	14-C9	EC450055	Elect. 1µF 25WV
	G 1 B 1			14-C10	EC320051	Elect. 10µF 16WV
	Carbon Resi	stor Omitted		14-C11	EC220151	Elect. 100µF 25WV
				14-C12	EC250885	Mylar 0.01 µF(K) 50WV
				14-C13	EC346735	Elect. 47µF 50WV

Symbol No.

15-1

13) SYS. CON P.C BOARD (TE-2001) BLOCK

Symbol No.	Parts No.	Description	Q'ty
13-1	BA637964	Sys. Con. P.C Board Comp.	
		(TE-2001)	1
13-TR1	ET639437	Transistor 2SC945L(Q)(P)	1
13-TR2,3	ET511920	Transistor 2SC1247A(B)(V)	2
13-TR4to6	ET639437	Transistor 2SC945L(Q)(P)	3
13-TR7	ET399881	Transistor 2SC711(F)	1
13-TR8to11	ET639437	Transistor 2SC945L(Q)(P)	4
13-D1to3	ED560913	Silicon Diode 1S2473 VE	3
13-D4	ED494583	Silicon Diode 10D05	1
13-D5to10	ED560913	Silicon Diode 1S2473 VE	6
13-D11	ED498150	Zener Diode WZ-192	1
13-D12,13	ED560913	Silicon Diode 1S2473 VE	2
13-D14to29	ED624903	Silicon Diode 1S2473	16
		Capacitor, Vertical Type	
13-C1	EC459505	Mylar 0.039 µF(K) 50WV	1
13-C2	EC350684	Elect. 22 µF 25WV	1
13-C3	EC362158	Mylar 0.0047µF(K) 50WV	1
13-C4	EC350684	Elect. 22µF 25WV	1
13-C5	EC220612	Elect. 33µF 25WV	1
13-C6	EC350684	Elect. 22µF 25WV	1
13-C7	EC251087	Mylar 0.022 µF(K) 50WV	1
13-C8	EC368256	Elect. 0.47µF 25WV	1
	Carbon Resi	stor Omitted	

14) SERVO P.C BOARD (MY-2036) BLOCK

Symbol No.	Parts No.	Description	Q'ty
14-1	BA657167	Servo P.C Board Comp.	
*		(MY-2036)	1
14-TR1,2	ET639437	Transistor 2SC945(P)(Q)	2
14-TR3,4	ET399846	Transistor 2SC945(Q)	2
14-TR5	ET538154	Transistor 2SA564(Q)(R)	1
14-TR6	ET399846	Transistor 2SC945(Q)	1
14-TR7	ET623867	Transistor 2SD361(D1)(D2)	1
14-TR8	ET639437	Transistor 2SC945(P)(Q)	1
14-D1	ED557447	Silicon Diode 1S1588	1
14-D2to5	ED224548	Silicon Diode 10D2	4
14-TH1	ED593357	Thermister 34D21	1
14-VR1	EV621955	Semi-fixed/Vol. V10K8-1-5	
		BIOK	1
14-VR2	EV621966	Semi-fixed/Vol. V10K8-1-5	
		B30K	1
14-2	ZS421806	Screw, pan head 3x8	1
14-3	ZW273756	Nut M3	1
14-4	EZ615047	Heat-sink Plate A	1
14-5	ZS422076	Screw, pan head 3x5	6

15) RELAY P.C BOARD (TE-2002) BLOCK

BA638021 Relay P.C Board Comp.

Description

Carbon Resistor Omitted

Parts No.

Q'ty

	2111111	attay are board comp.	
4.5 7777.4		(TE-2002)	1
15-TR1	ET537300	Transistor 2SD361(D)(E)	1
15-TR2	ET511920	Transistor 2SC1247A(B)(V)	1
15-TR3	ET639437	Transistor 2SC945L(Q)(P)	1
15-TR4	ET517353	Transistor 2SC711(E)(G)	1
15-D1to5	ED570273	Silicon Diode 1N4004	5
15-D6to9	ED511097	Silicon Diode 1N4001	4
15-D10	ED357794	Zener Diode RD-5A(M)	1
15-D11,12	ED560913	Silicon Diode 1S2473 VE	2
15-D13to16	ED624903	Silicon Diode 1S2473	4
15-D17,18	ED560913	Silicon Diode 1S2473 VE	2
15-CR1to10	ER450786	Spark Quencher U/L	
		0.1μ+120 ohm 400WV	10
15-VR1	EV498071	Semi-fixed/Vol. V10K8-1-5 1 kB	1
15-RL1	EP616500	Relay LC1-C-JT DC24V	1
15-RL2	EP638763	Relay MY4-0-US DC24V	1
15-RL3	EP616500	Relay LC1-C-JT DC24V	1
15-RL4	EP638763	Relay MY4-0-US DC24V	1
15-2	EZ640462	Relay P.C Board Retaining Part	1
15-3	ZS325495	Tapping Screw #2 3x6	6
15-4	EZ640642	Relay P.C Board Retaining	
		Part B	1
15-5	ZS421806	Screw, pan head 3x8	1
15-6	ZW516993	Nut M3	1
15-R1	ER535948	Cement/R. 5W 10 ohm(K)	
		(Wire-wound Type)	1.
15-R3	ER563354	Cement/R. 15W 430 ohm(K)	
		(Metal OX. Film Type)	1
15-R4	ER641261	Cement/R. 20W 43 ohm(K)	
		(Wire-wound Type)	1
15-R5	ER573524	Cement/R. 10W 150 ohm(K)	
		(Wire-wound Type)	1
15-R20	ER372082	Cement/R. 2W 100 ohm(K)	
		(Wire-wound Type)	1
		Capacitor, Vertical Type	
15-C1,2	EC350987	MP/C. 0.47μF(M) 250V DC	
		(Tub. Type)	2
15-C3	EC565345	Elect. 1000μF 50WV	1
15-C4	EC372148	Elect. 220 µF 35WV	1
15-C5	EC250918	Mylar 0.01 µF(M) 50WV	1
15-C6	EC313121	Elect. 220 µF 25WV	1
15-C7	EC331705	Elect. 22µF 16WV	1
15-C8,9	EC220678	Elect. 47µF 25WV	2
15-C10	EC646031	Elect. 4.7µF 160WV	
		(Tub. Type)	1
	Carbon Resi	stor Omitted	

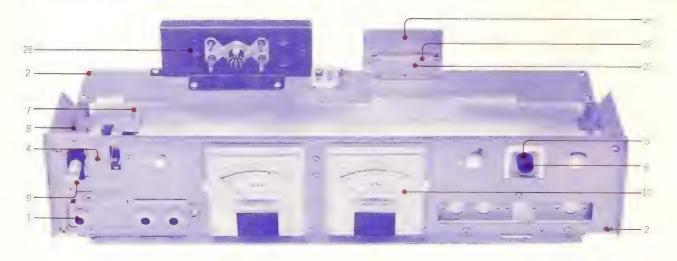
16) REC MODE P.C BOARD(TE-5003)BLOCK

Symbol No.	Parts No.	Description Q'	ty
16-1	BZ647831	Rec. Mode P.C Board Comp.	
		(TE-5003)	1
16-D1	ED624903	Silicon Diode 1S2473	1
16-SW3	ES640541	Push SW. 2FT-0014FF1320	1
16-RL1	EP383321	Relay TECK-36 DC22V 1000 ohm	1
16L1,2	EO390622	Ferri Inductor FL9H 220µH(K)	2
16-2	EZ640451	SW. Shield	1
16-3	ZS379350	ISO Screw, pan head 3x6	1
16-4	ZW516611	Nut M3	1
16-5	ZW273802	Toothed Lock Washer M3	1

17) SPEED SWITCH P.C BOARD (TE-5001) BLOCK

Symbol No.	Parts No.	Description	Q'ty
17-1	BA647717	Speed Switch P.C Board Comp.	
		(TE-5001)	1
17-SW2	ES640552	Slide SW. SSA06207	1
17-L1	EO379923	Ferri Inductor FL7H 8.2 MH(J)	2
17-2	MZ640618	Equalizer Bracket	1
17-3	ZS432843	Screw, pan head 2.6x4	2
17-C1	EC250841	Mylar/C. $0.01\mu F(J)$ 50WV	
		(Vert. Type)	2
	Carbon Resi	stor Omitted	

18 PHOTO OF AMP ASSEMBLY BLOCK



18) AMP ASSEMBLY BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
	FRONT CH	ASSIS BLOCK		
18-1	EJ655830	3-throw Jack C	31-2-69	1
18-2	ZS325495	Tapping Screw #2 3x6		12
18-3x	MZ640405	SW. Retaining Plate	TE-5007	1
18-4	ZS422076	Screw, pan head 3x5		2
18-5	EZ586326	Lamp Holder	LF-5324	1
18-6	EL639472	Lamp 24V 35MA(190M/Mx	(2)	
		(Read Type		1
18-7	MZ640945	Connecting Plate B	TE-5009	1
18-8	ES641283	Lever SW. S-J6399	25-12-21	1
18-9	ZS379350	ISO Screw, pan head 3x6		4
18-10	EM573748	VU Meter KL-280B-28		
		(Yellow)	46-1-86	2
18-11x	MZ659632	Meter Mask	TE-5027	2
18-12x	ZG290878	VU Meter Spring	DX-504	4
18-13x	ZW516611	Nut M3		4
18-14x	EZ640620	P.C Board Holder	TE-5011	1
18-15x	ES573671	Push SW. 1FST-6U-122-3		
		(DB)	25-5-119	1
18-16x	ZS422076	Screw, pan head 3x5 (DB)		2
18-17x	EA640438	Dolby Lamp P.C Board (DB)	TE-5004	1
18-18x	EL619064	Lamp 24V 35MA (DB)	28-2-40	1
18-19x	ZS325495	Tapping Scres #2 3x6		1
		SSIS BLOCK		
18-20x		Amp. Side Plate A	TE-5012	1
	MZ640585	Amp. Side Plate B	TE-5012	1
18-22	EJ292961	Multi-jack 10P 500-010-005	31-4-4	1
18-23	EZ530021	Jack Nut Plate	ND-5052	1
18-24x	ZS462947	Screw, pan head 2.3x12		2
18-25x	ZW273881	Earth Lug M4		1
18-26	EZ655942	MJJack Shield	TE-5017	1
	TACTE DE ACT	E DI OCI		
10.25-	JACK PLAT			
18-27x 18-28	BJ647728	Jack Plate Block Comp.		1
18-28 18-29x	EJ624104	Jack Plate J-2	31-5-121	1
18-29x 18-30x	EA628222 ER440921	P.C Board for Jack	LE-5622	1
10-3UX	EK440921	Carbon/R. RD1/4 27k(J)		_
		(Insu. Type)	35-9-5	2

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
18-31x	ER214290	Carbon/R. RD1/4 4.7k(J)		
		(Insu. Type)	35-9-5	2
18-32x	ER345677	Carbon/R. RD1/4 15k(J)		
		(Insu. Type)	35-9-5	2
18-33x	ER324685	Carbon/R. RD1/4 33k(J)	35-9-5	2
	AMP ASSE	MBLY BLOCK		
18-34x	EJ639112	9P Plug Housing 103-3-9P	42-1-85	1
18-35x	EJ514607	Wire Clip 220-JD485210-01		
		(Nylon)	2-7-18	2
18-36x	EJ510333	Wire Clip 220-JD481610-		
		0104 (Nylon)	2-7-17	3
18-37x	MT553948	Wire Band B	2-35-3	4
18-38x	MZ640440	Jack Plate Holder	TE-5014	1

19 PHOTO OF FINAL ASSEMBLY BLOCK



19) FINAL ASSEMBLY BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
	HEAD COVE	ER TABLE BLOCK		
19-1	SC640991	Head Cover Base	TE-6007	1
19-2	SC643724	Head Cover	TY-6004	1
19-3x	SZ534543	Cushion Rubber C	TW-6039	2
19-4	SM640956	Model Name Plate GX-630D	TE-6005	1
19-5x	SM640967	Model Name Plate GX-630DH	3	
		(DB)	TE-6005	1
19-6x	MZ640800	Hinge Bracket	TE-6006	1
19-7x	MZ598263	Hinge Angel	KJ-6017	1
19-8x	MV269965	Steel Ball D4		1
19-9x	ZG249107	Ball Retaining Spring	RD-632	1
19-10x	ZW499593	Set Screw, hexagon socket		
		5x4 (Flat Point)		1
19-11x	MS597431	Hinge Shaft	KJ-6015	1
19-12x	SZ597420	Collar	KJ-6014	1
19-13x	ZW420682	Washer (Nylon) D4.2x9x0.5t		1
19-14x	ZW270101	'E' Ring 3M	6-1-9	2
19-15x	ZS323728	Screw, binding head 3x5		4
	MECH. PAN	EL BLOCK		
19-16x	BZ647662	Mech. Panel Block Comp.	TE	1
19-17	SP641237	Mech. Panel	TE-6001	1
19-18	SE640754	Motor Escutcheon A	TE-6002	1
19-19	MZ640787	Impedanse Roller Collar	TE-6003	1
	MZ640798	Arm Collar	TE-6004	2
19-21	SE581602	Reel Table Escutcheon 2	TD-6021	2
	ZW575730	Speed Nut (P Type) 3	6-3-6	8
19-23	SE626951	Counter Escutcheon	MY-6006	1
	AMP. PANE			1
	BZ647730	Amp. Panel Block Comp.	TE	1
19-25x	BZ647741	Amp. Panel Block Comp.	TE	1
		(DB)		1
19-26	SP641002	Amp. Panel	TE-6008	
19-27x		Amp. Panel (DB)	TE-6008	1
19-28	SE631102	VU Escutcheon	MY-6205	2 8
19-29x		Screw, pan head 2.6x8		
19-30x		Washer (BSP) D2.6x4.5x0.4		8 1
19-31	SE612055	Lamp Lens A (Red)	CH-6314 NE-6005	_
19-32x		Lamp Lens B-2 (DB)		_
19-33x		Button Escutcheon A (DB)	CW-6021	
19-34x		Button Escutcheon C	CW-6016	_
19-35x	TC494267	Lamp Cover(DB)	CG-2206	1

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
	CASE BLOC	K		
19-36x	BC647673	Case Block Comp.	TE	1
19-37	BC640978	Wood Case	TE-6021	1
19-38	SA640934	Square Foot, w/rubber	TE-6020	2
19-39x	ZS200610	Tapping Screw #1 4x12		
		(Truss)		4
19-40x	SZ480712	Dust Cover Pin	LE-6024	2
	FINAL ASSI	EMBLY BLLCK		
19-41x	SP641024	Lower Side Plate A	TE-6013	1
19-42x	SP641035	Lower Side Plate B	TE-6013	1
19-43x	ZS325495	Tapping Screw #2 3x6		30
19-44x	SP641046	Upper Side Plate A	TE-6014	1
19-45x	SP641057	Upper Side Plate B	TE-6014	1
19-46x	MZ640877	Supporting Plate	TE-6016	2
19-47x	ZS417150	Screw, pan head 4x6		8
19-48x	SZ529920	Reinforcement Angle A	ND-6003	1
19-49x	ZS432674	Screw, pan head 3x3		1
19-50x	SA428714	LM Rubber Foot, w/screw	LM-404	4
19-51x	ZW324281	Screw, pan head 4x25		4
19-52x	ZW419646	Washer (SPC) D4.5x9.8x0.5t		4
19-53x	ZS665550	Screw, pan head 4x15,		
		w/washer	•	2
19-54x	ZS664345	Screw, pan head 4x30		
		w/washer		4
19-55x	EZ640980	Amp. Shield	TE-6018	1
19-56	SK638976	Knob 1-C	CP-5018	4
19-57	SK634410	Push Button Knob J	91-5051	3
19-58x	EF563681	Fuse 1A250V	39-1-50	1
19-59x	ZS411660	Screw, oval countersunk hea	d	
		3x6		2
19-60	EZ436217	Collar For Jack	MC-5006	3
19-61	SK640912	Double Knob (Upper)	TE-6011	2
19-62	SK640923	Double Knob (Lower)	TE-6012	2
19-63	SK640901	Single Knob	TE-6010	1
19-64	SK645300	Pinch Roller Cap	TD-6013	1
19-65	ZS613901	Panel Screw	CW-6031	8
19-66x	ZS312221	Screw, truss head 3x15		
		(Black)		4
19-67x		Ventilater	MY-6014	1
19-68x	ZS392141	Tapping Screw #1 3x8		_
		(Truss)	00.0.10	2
19-69	EW374894	AC Cord 3M	26-3-19	1
19-70x	EW516600	AC Cord VM-0065 (CEE)	26-3-28	1
19-71x	EW524845	AC Cord 2.5M (JPN)	26-3-31	1

20 LIST OF INTERCHANGEABLE SEMICONDUCTORS

As far as service in concerned, in case the original parts cannot be obtained, the interchangeable parts listed below can be substituted.

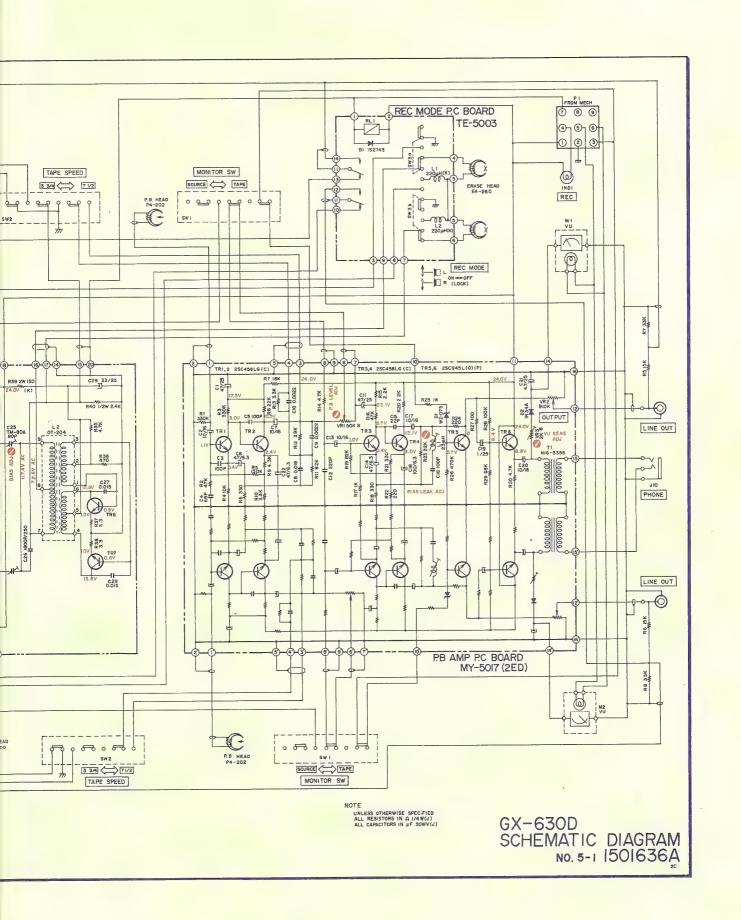
	Interchangeab	le Parts			
Description	Parts No.	Utilizing P.C Board	Description	Parts No.	
2SA564 (Q)	ET350335	MY-2036 TD-5301	2SA733 (Q),(R) 2SA628 (D),(E) 2SA640 (E),(F)	ET538378 ET538110 ET623790	
2SC458 (C)	ET329218	TD-5301	2SC458LG (C) 2SC693U (F)	ET234854 ET315472	
2SC458LG (C)	ET234854	MY-5016 MY-5017 TD-5301	2SC693U (F) 2SC1312R (G),(H) 2SC1312S (G),(H)	ET315472 ET610413 ET603257	
2SC711 (F),(G)	ET398777	TE-2001 TE-2002	2SC536 (E),(F) 2SC945 (E),(F)	ET370607 ET398711	
2SC945L (Q),(P)	ET639437	MY-2036 MY-5016 MY-5017 TE-2001 TE-2002	2SC711 (E),(F) 2SC1647 (R)(S)(E) 2SC1641 (R)(S)(E)	ET453486 ET623733 ET603843	
2SC1247A (B),(V)	ET511920	TE-2001 TE-2002	2SC1211 (D),(E)	ET511694	
2SD361 (D),(E)	ET537000	TE-2002	2SD361 (D1),(D2) 2SC1061 (B),(C) 2SC1449 (K)(L)(H)	ET623867 ET375603 ET635815	
TIP47	ET621775		TIP48	ET621786	
1N34A	ED219464	MY-5017	1N60	ED428264	
1N4001	ED511097	TE-2002	10D05	ED494583	
1S1588	ED557447	MY-2036	1S2473 WG599 1S2473VE	ED624903 ED514721 ED560913	
1S2473	ED624903	TD-5301	1S1588	ED557447	
1S2473VE	ED560913	TE-2001 TE-2002	WG599 WG713	ED514721 ED515790	

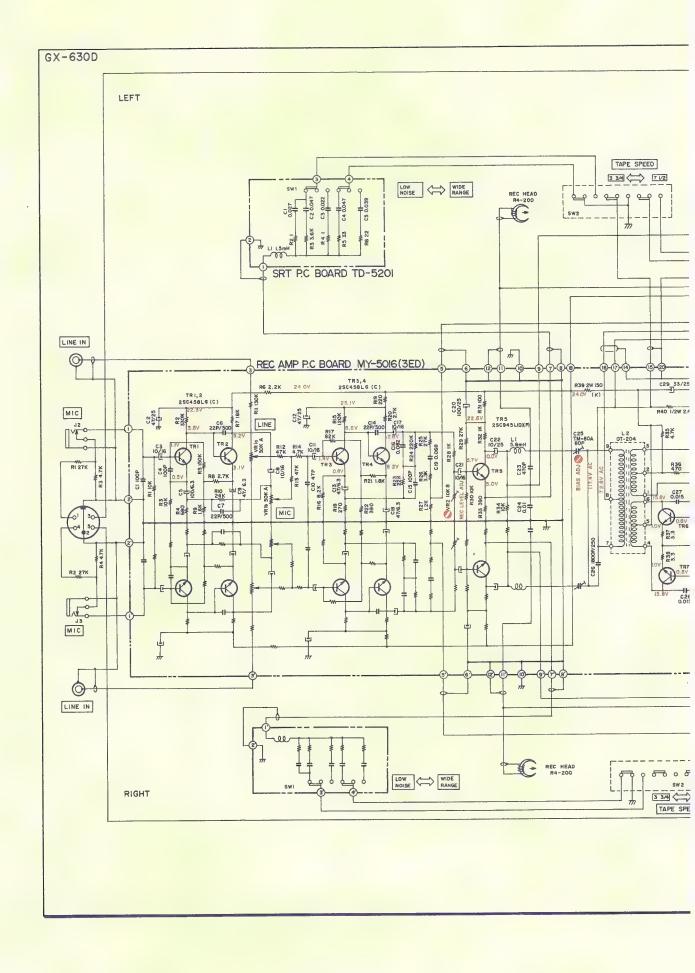
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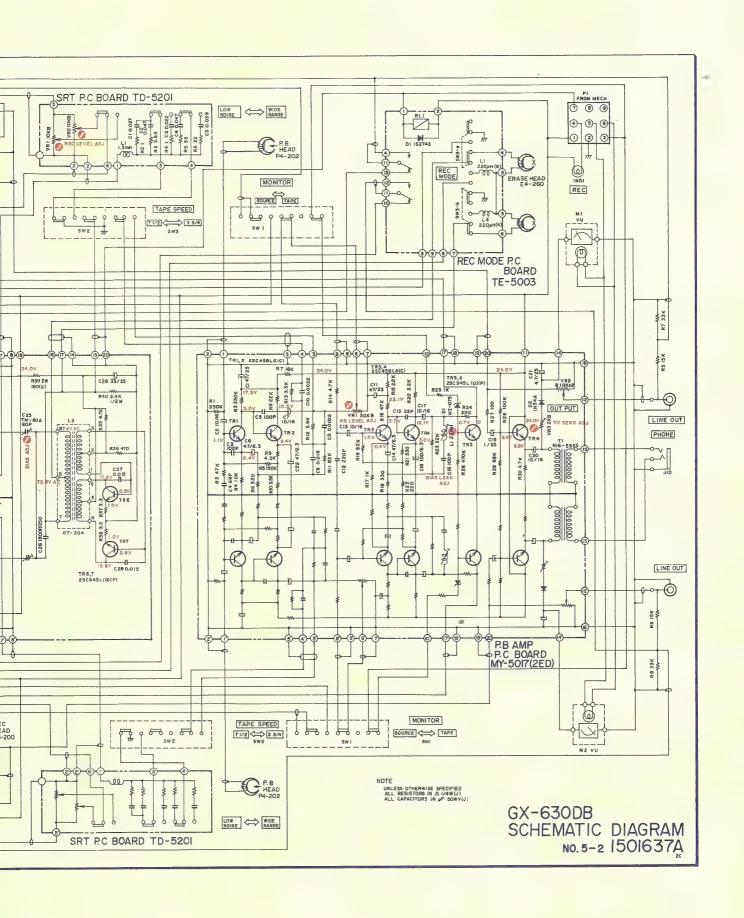
Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No.
BA588003 BA622732 BA637964 BA638021 BA647684 BA6477763 BA647763 BA647766 BA651667	11-1 9-1 13-1 15-1 10-1 17-1 12-2 10-2 12-1 14-1	EC320051 EC320051 EC320051 EC320051 EC320051 EC320051 EC320051 EC320051 EC320051 EC320051	10-C11 10-C17 10-C21 11-C1 11-C4,5 11-C6 11-C11 11-C15 11-C17 14-C10	ED560913 ED560913 ED560913 ED560913 ED560913 ED560913 ED570273 ED570273 ED570273	11-D3,4 11-D6 13-D1to3 13-D5to10 13-D12,13 15-D11,12 15-D17,18 5-4x 15-D1to5 9-D1	ES624677 ES661860 ET234854 ET234854 ET234854 ET234854 ET234854 ET329218 ET329218 ET329218	8-42x 8-39x 9-TH1to4 10-TR1,2 10-TR3,4 11-TR1 11-TR6 11-TR2 II-TR4 11-TR8	MC638684 MH244710 MH257477 MH529233 MH533913 MH578957 MH580588 MH580691 MH581894 MH581927	8-62 6-6 5-7 1-11 8-5x 1-6 6-7 8-55x 8-46x 8-50x
BC640978 BC647673 BH638008 BI637931 BJ647728 BM587518 BM637975 BR587542 BR587553 BS637920	19-37 19-36x 1-1x 4-1x 18-27x 3-1 2-1x 3-6x 3-7x 8-14	EC329771 EC329771 EC329771 EC329771 EC329771 EC329771 EC329771 EC329850 EC329861 EC329861 EC329883	9-C6 9-C14 9-C22 10-C9 10-C13 10-C18 9-C12 11-C9 12-C1 11-C8	ED593357 ED624903 ED624903 ED624903 EF487427 EF511637 EF563681 EF588420 EF623103 EF623114	14-TH1 13-D14to29 15-D13to16 16-D1 7-18x 7-19x 19-58x 7-20x 7-17x 7-38x	ET350335 ET352146 ET399846 ET399846 ET399881 ET491051 ET511920 ET511920 ET517353 ET537300	11-TR7 11-TR3 14-TR3,4 14-TR6 13-TR7 11-TR5 13-TR2,3 15-TR2 15-TR4 15-TR1	MH581940 MH581951 MH581962 MH581973 MH581984 MH640350 MH640350 MH642565 MI597183 ML396933 ML533643	8-49x 8-51x 8-52x 8-53x 8-54x 8-56x 8-57x 4-18 8-2 5-12
BS637997 BS660227 BS660238 BS660240 BT517274 BT640517 BT661858 BT661904 BT661926 BZ600300	8-32 8-33x 8-34x 8-35x 9T-1 7-1 7-2x 7-4x 7-3x 2-5	EC331705 EC331828 EC336194 EC337500 EC346735 EC350684 EC350684 EC350684 EC350875 EC350987	15-C7 14-C4 11-C3 11-C10 14-C13 13-C2 13-C4 13-C6 11-C2 15-C1,2	EF654210 EJ222748 EJ233370 EJ292961 EJ315101 EJ363126 EJ510333 EJ510333 EJ514607 EJ624104	7-21x 7-39 7-33 18-22 1-26 11-2 7-32x 18-36x 18-35x 18-28	ET538154 ET621786 ET623867 ET639437 ET639437 ET639437 ET639437 ET639437 ET639437	14-TR5 7-48x 14-TR7 9-TR5,6 10-TR5,6,7 13-TR1 13-TR4to6 13-TR8to11 14-TR1,2 14-TR8	ML580127 ML580443 ML580465 ML580555 ML580612 ML581883 ML582041 ML582074 ML582096 ML630887	8-65 6-1 6-24 6-10 7-42x 8-44x 5-18 5-16 8-82 8-19
BZ637918 BZ637953 BZ637936 BZ647662 BZ647730 BZ647741 BZ6477831 EA597251 EA628222 EA640438	8-1x 8-17x 5-1x 19-16x 19-24x 19-25x 16-1 7-74x 18-29x 18-17x	EC362158 EC368256 EC368335 EC368357 EC372148 EC377212 EC379170 EC379170 EC379170	13-C3 13-C8 12-C3 10-C19 15-C4 10-C10 11-C12 11-C16 11-C18 11-C19	EJ631945 EJ639112 EJ654221 EJ655830 EL619064 EL639472 EM573748 EO321254 EO369178 EO379923	7-51 18-34x 7-26x 18-1 18-18x 18-6 18-10 10-L1 12-L1 17-L1	ET639437 EV464196 EV464207 EV464220 EV478686 EV498071 EV520806 EV520806 EV621955 EV621966	15-TR3 9-VR3 11-VR2 9-VR1 11-VR1 15-VR1 10-VR2 12-VR1,2 14-BR1 14-VR2	ML643476 ML643487 ML643847 ML646198 MP582164 MR580105 MR597115 MS342000 MS397001 MS580116	5-6 5-9 8-83 8-81 8-94 8-68 4-15 3-15 8-59x 8-66x
EA642701 EC220151 EC220364 EC220364 EC220612 EC220612 EC220678 EC220678	7-22x 10-C20 14-C11 9-C18 10-C5 10-C29 13-C5 9-C1 9-C11 10-C2	EC379192 EC379214 EC379214 EC389485 EC395504 EC399565 EC399565 EC399565 EC405898 EC432810	12-C5 12-C2 12-C4 9-C8 11-C20 9-C15 10-C6,7 10-C14 10-C 23 9-C2	EO383365 EO390622 EO496350 EO496361 EP383321 EP573658 EP616500 EP616500 EP638695 EP638763	10-L2 16-L1,2 11-L1 9-L1 16-RL1 8-9 15-RL1 15-RL3 5-3 15-RL2	EV622056 EV622078 EW374894 EW516600 EW524845 EZ246936 EZ436217 EZ530021 EZ586326 EZ614586	9-VR2 10-VR1 19-69 19-70x 19-71x 7-52x 19-60 18-23 18-5 7-23x	MS582153 MS597431 MS597655 MS643397 MS645502 MT314985 MT436860 MT534666 MT534677	8-12 19-11x 2-10 4-10 6-2 5-13 3-11x 3-10 3-13 3-14
EC220678 EC220974 EC250582 EC250582 EC250683 EC250841 EC250841 EC250885 EC250918	10-C12 15-C8,9 10-C22 14-C6 14-C3 9-C9,10 10-C24 17-C1 14-C12 15-C5	EC432810 EC432810 EC438041 EC450055 EC450055 EC450527 EC459505 EC467133 EC520626 EC536927	9-C13 10-C 10-C16 9-C19 14-C9 9-C21 13-C1 9-C4 7-13 7-15x	EP638763 ER214290 ER324685 ER345677 ER372082 ER426892 ER440921 ER450786 ER450786	15-RL4 18-31x 18-33x 18-32x 15-R20 10-R40 18-30x 5-28 15-CR1to10 10-R39	EZ615047 EZ615060 EZ615071 EZ278862 EZ640372 EZ640451 EZ640462 EZ640620 EX640642 EZ640686	14-4 14-6 14-7 2-16 8-24x 16-2 15-2 18-14x 15-4 8-23x	MT534688 MT553948 MT553948 MT577473 MV269965 MV269965 MV368886 MV408510 MV643386 MZ248185	19-8x 2-6 3-2x 4-3
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EC290520 EC290520 EC311793 EC313121 EC313121 EC320040 EC320051 EC320051 EC320051	11-C14 14-C7 11-C7 15-C6 11-C13 9-C7 E9-C17 9-C20	ED219464 ED219464 ED219464 ED224548 ED357794 ED491130 ED494583 ED498150 ED511097 ED557447	9-D2 11-D1 11-D5 14-D2to5 15-D10 11-D2 13-D4 13-D11 15-D6to9 14-D1	ES479496 ES550001 ES563387 ES573456 ES573456 ES573671 ES640541 ES640552 ES641068 ES641283	8-38 12-SW1 8-37 5-25 6-29 18-15× 16-SW3 17-SW2 8-43x 18-8	HZ532732 HZ532765 HZ532776 HZ643544 HZ645299 MB527556 MB580138 MB606712 MB665561	1-13 1-15 1-16 1-2 1-3 1-4 8-92 8-71 8-48 4-8	MZ580680 MZ580781 MZ581275 MZ582030 MZ582190 MZ583198 MZ597093 MZ597126 MZ597644 MZ597690	8-3 8-10 8-64 8-84 7-36x 4-5 4-16x 2-8

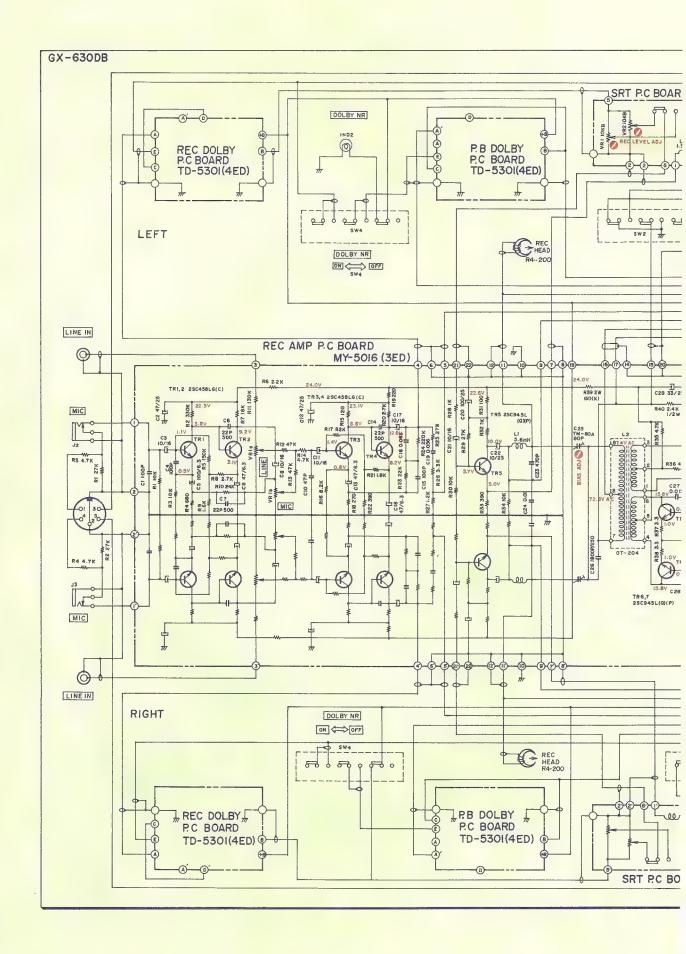
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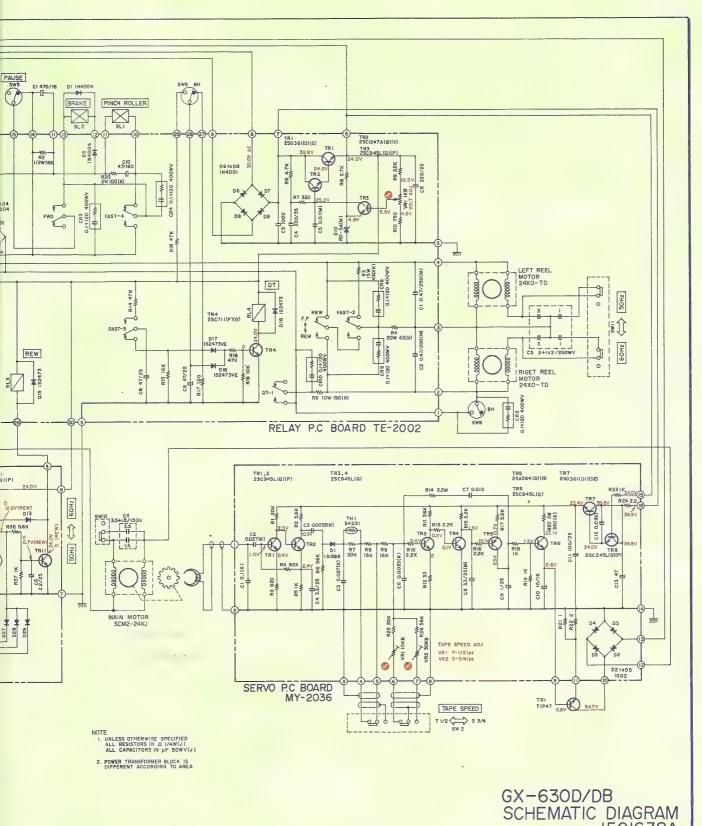
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AZ640383	8-21	ZG580770	8-80	ZW270088	8-6x				
AZ640405	18-3x	ZG582131	8-78	ZW270088	8-89				
AZ640440	18-38x	ZG586427	5-11	ZW270101	9-14x				
MZ640574	18-20x	ZG659608	6-20	ZW270123	8-90				
MZ640585	18-21x	ZS200384	6-26	ZW270156	3-5				
AZ640618	17-2	ZS200610	19-39x	ZW270156	6-11				
MZ640664	4-25	ZS243516	8-79	ZW273745	1-10x				
MZ640675	8-18	ZS312221 ZS323728	19-66x 5-10	ZW273756 ZW273756	6-14 14-3				
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AZ640798 AZ640800	19-6x	ZS323728	8-11	ZW273802	16-5				
MZ640877	19-46x	ZS323728	19-15x	ZW273835	1-9				
MZ640945	18-7	ZS325495	7-12	ZW273881	1-28				
MZ643375	4-2	ZS325495	8-22x	ZW273881	7-27x	}			
MZ643408	4-7	ZS325495	15-3	ZW273881	18-25x	}			
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1Z643465	8-87	ZS325495	19-43x	ZW273914	1-12				
AZ643498	5-2	ZS327835	7-45x	ZW273914	7-9x				
MZ643522	8-36	ZS355511	1-27	ZW290283	5-17				
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SB640743	8-31x	ZS396000	1-17	ZW413188	7-29x				
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SP641024	19-41x	ZS435273	3-21	ZW597543	2-2				
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SZ597420	19-21x	ZS537006	1-5	ZW655953	4-17x				
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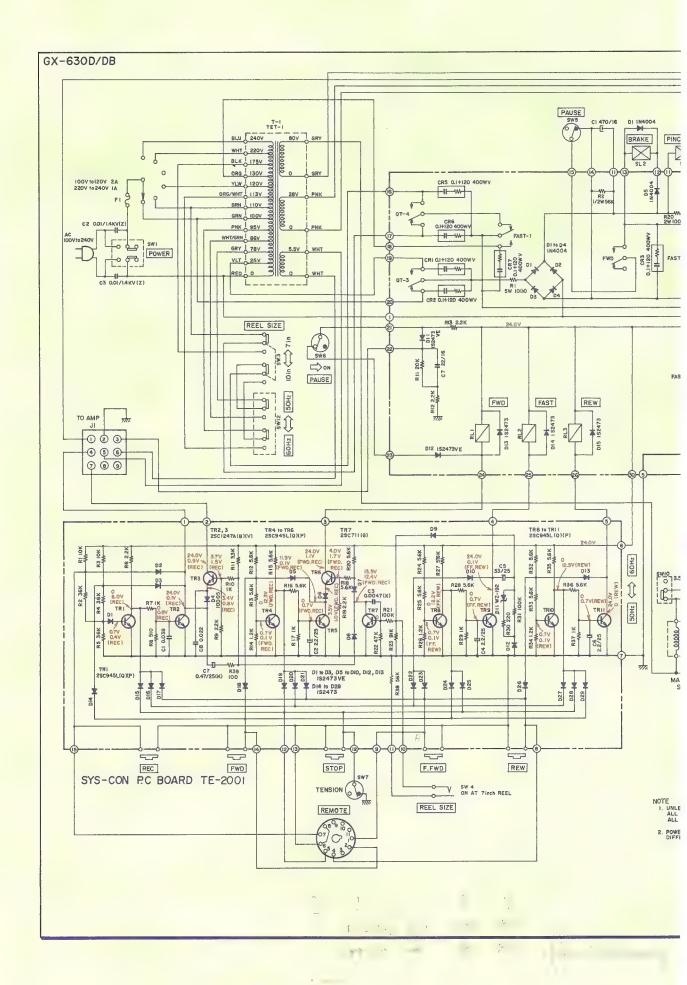


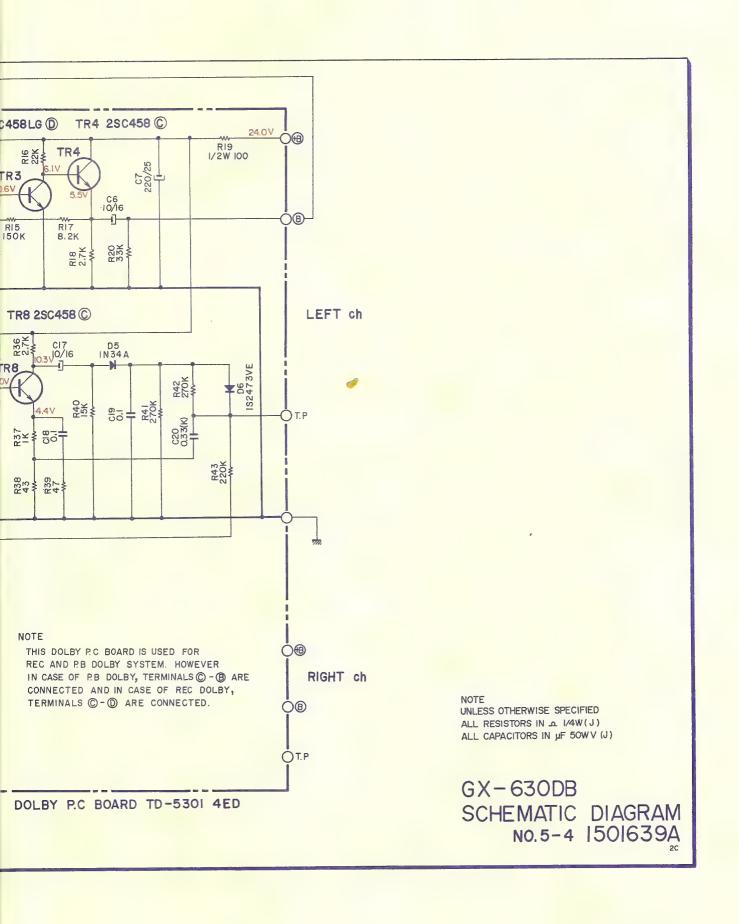


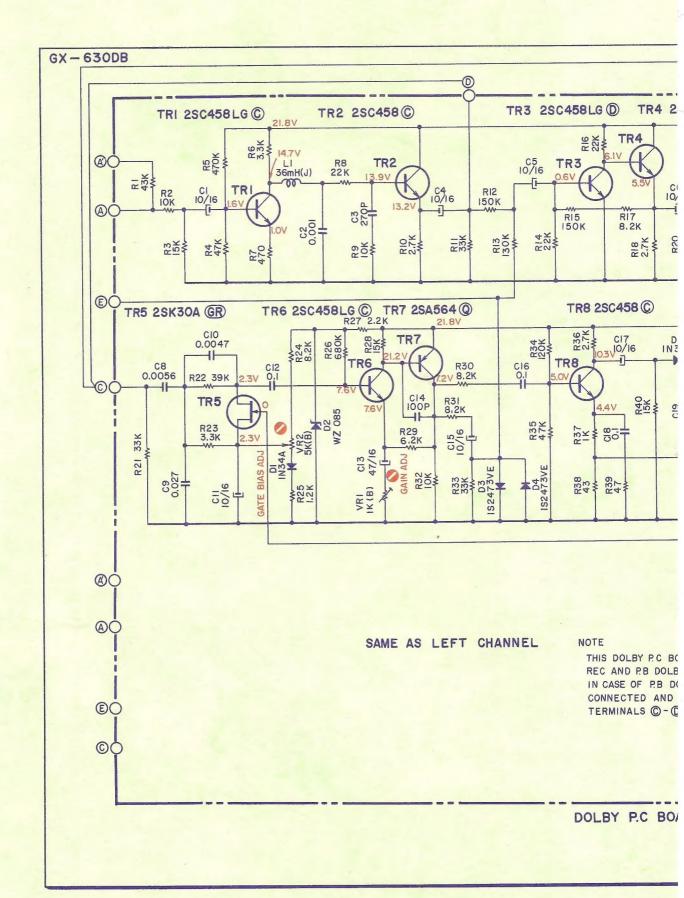


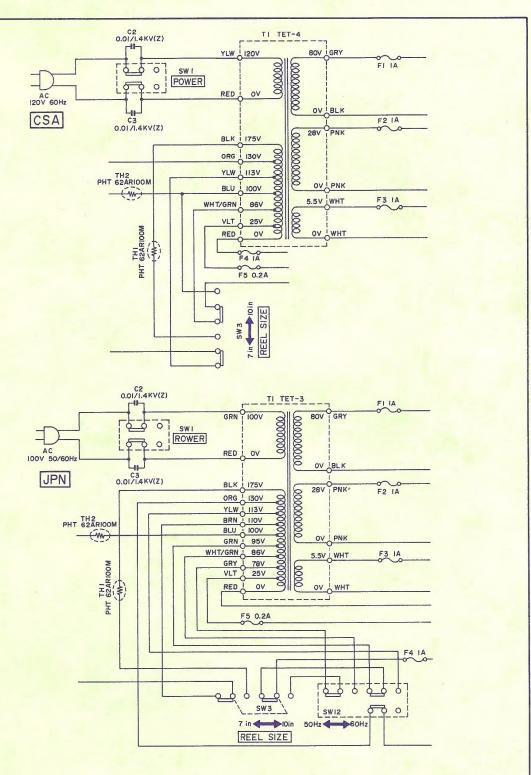


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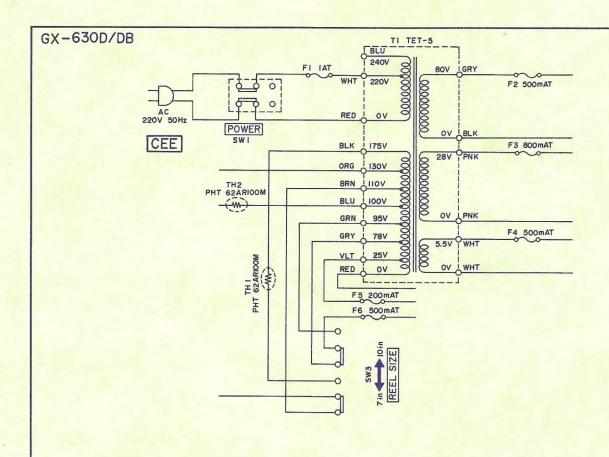


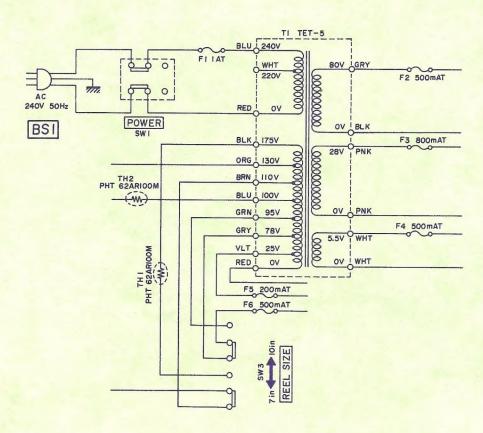






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